

TAPR APRS Special Interest Group Archive, June 2000 through December 2000

June 2000 through December 2000

TAPR's discussion forum for the Automatic Packet Reporting System (APRS), including software, hardware, GPS, mapping, networking, operations, and related technical topics.

This volume contains 2 original monthly files and 2,174 messages, arranged chronologically. The PDF is a readable access copy: MIME transfer encodings are decoded, HTML bodies are converted to plain text, and non-text attachments are represented by descriptive notes. The raw source text is supplied separately with the Internet Archive item.

Month	Messages	Original source file
2000-06	1,307	aprssig.0006
2000-12	867	aprssig.0012

June 2000

Original source file: aprssig.0006

Source: http://ftp.tapr.org/tapr_history/SIG_Archives/aprssig/mail_archive/aprssig.0006

1. [aprssig] Re: HamHud 100? B-)

From: Steve Bragg <steveb@c2-tech.com>
Date: Thu, 01 Jun 2000 00:10:19 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87774-2000.06.01-00.11.33--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Jeff Brenton wrote:

>
> Hmmm... all those old TRS-80 Model 100 computers would make a heck of a
> "HamHud" type display unit... B-)

It's very interesting you should mention that. Over a year ago, the original prototype HamHUD WAS a Radio Shack Model 100 running a Basic program.

I still keep the unit in the car for detailed TNC configuration.

73,

Steve KA9MVA

--

Steve Bragg KA9MVA, RF Engineer
C2 Technologies, Inc.
Nine East Fourth St.
Tulsa, OK 74055 USA
<http://www.c2-tech.com/~steveb>

Find me with APRS! <http://map.findu.com/ka9mva-6>

"#define QUESTION ((2b) || !(2b))"
- Shakespeare

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

2. [aprssig] Re: APRServe and Flux Capacitors

From: Jon Adams <jon@jonadams.com>
Date: Wed, 31 May 2000 21:45:20 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87775-2000.06.01-00.21.43--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Well, this would explain the night (about 3 months ago) that I happened to be looking at the US map, and saw a mobile station out in the middle of the Arizona strip west of the north rim of the Grand Canyon and miles from ANYWHERE (I know, I've been there). So I zoomed in, and found that it was a tracker sending out that curious abbreviated code. But it was cool that someone was really able to get into the system from the middle of, well, nowhere. Moments later, however, my hopes were dashed as I found that the tracker was now in the Salton Sea area. Then, later that evening, she (the tracker belonged to a lady down in the San Diego area) was next up in the Mojave. I thought at the time it was just the teleportation thing. But maybe I was wrong.

73 - Jon N7UV

Ian Wade wrote:

> In article <LYR14778-87655-2000.05.31-10.47.02--Ian.Wade#care4free.net@l
> ists.tapr.org>, David VanHorn <dvanhorn@cedar.net> writes
> >Hash: SHA1
> >
> >
> >>>The problem is that the code filters out non-ASCII characters in
> >>>the data stream and changes them to a dot ('.').
> >
> >
> >Wouldn't explain my QTH taking a sudden trip to brazil, or my HamHud to the
> >pacific ocean, or the odd behaviour of tracking, where I suddenly teleport
> >to somewhere I was at 10-20 minutes previously.
> >
> >

```

> Hmmm. It's a bit like when we thought we were watching the Americans
> landing on the moon, but it was all really coming from a studio in
> Hollywood ... :-))
>
> Seriously, I guess a thorough IGate/APRserve/aprsd audit is called for.
> First point for attention is to find out where those pseudo digis with
> Mic-E-like destination calls come from. These only started to appear in
> the last week or so, so if anyone modified any related software very
> recently, that could be the place to look.
>
> 73
> Ian, G3NRW
> Technical Editor, APRS Protocol Specification
> ***** Third draft now available *****
> --
> +-----+
> | APRS on 144.800 [IO91SX] ~55km/35 miles NNW of London |
> | email: g3nrw@arrrl.net |
> | |
> | APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
> | APRS DECODER: http://www.netro.co.uk/aprs.htm |
> +-----+
>
> ---
> You are currently subscribed to aprssig as: jon@jonadams.com
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

```

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---
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```

3. [aprssig] question on DB 25->9 pin

```

From: Kd4emi@aol.com
Date: Thu, 1 Jun 2000 01:41:49 EDT
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87776-2000.06.01-00.44.41--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

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I am building my hsp.
My situation is that I am going to use a 25 pin on the tnc side and a 9 pin
on the computer side.
I have the 25/9 adapter but in looking at the schematic I am concerned about
gnd and other lines that don't seem to jive too well when you mix up the
connector types
Can I get away with the adapter (25/9 pin) or should I do something else?
I looked on www.nwaprs.org which has a great illustration but when I look at
things like SG and other lines, it seems that these will get mixed up if I
just slap on 25 to 9 DB adapter and use the DB-25 schematic as it is depicted
on that website.
So in summary, can I just use a DB25 to db9 connector with the HSP 25 pin set
up or what should I do. Yes I am easily confused....(my guess is that it is
ok but before I fry something it is easy enough to check with you folks)
Thanks in advance again to all
Mike
KD4EMI@AOL.COM

```

```

---
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```

4. [aprssig] UIDIGI 1.7 Released

```

From: "Marco Savegnago" <msave@tin.it>
Date: Thu, 1 Jun 2000 1:43:25
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87785-2000.06.01-01.46.09--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

Hello, the final version of UIDIGI 1.7 is available to download following the link at the URL:

<http://space.tin.it/computer/msavegna/uidigi.htm>

or

<http://gw.ir3ip.ampr.org/~iw3fqg/uidigi.htm>

Bye.

Marco IW3FQG

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5. [aprssig] Re: Old Motorola GPS

From: Ralph Fowler <rwf@bsrg.org>
Date: Thu, 01 Jun 2000 04:12:03 +0100
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87791-2000.06.01-03.23.56--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

It comes with every copy of APRS Dos.
Motorola.bas later changed to Motorola.exe
I have several of them, great units!

At 12:23 AM 06/01/2000 -0400, you wrote:
>I have an old Motorola black box GPS. I think this was used in a
>commercial application. There's a BNC for the antenna, a power connector
>and a male DB-9. It's a model PUT602N323. A picture of the GPS is
>here: <http://www.rayvaughan.com/images/MVC-013F.JPG> I would like to use
>this in APRS.
>
> From an old manual called "Motorola GPS Quick Start Guide" dated 1992,
> it looks like this was one of their first GPS units. From what I've
> read, I need to communicate with it using their software to put it into
> the NMEA mode.
>
>Does anyone have this software? I looked around the Motorola website, but
>all I could find is for their current production line.
>
>If you have one of these and are using it in APRS, I would like to hear
>from you. Any advice welcome.

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6. [aprssig] Re: USB and GPS

From: "Darryl Smith" <darryl@radio-active.net.au>
Date: Thu, 1 Jun 2000 18:56:07 +1000
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87792-2000.06.01-03.59.18--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

G'Day All

I have actually seen a USB GPS running... It is certainly not available yet
on the market, but I have seen one... It got it's power from the USB port...

Darryl

Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia
Mobile Number 0412 929 634 [+61 4 12 929 634 International]
Darryl@radio-active.net.au | www.radio-active.net.au for domain names

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7. [aprssig] Re: DIGI XX ID's

From: Hamish Moffatt <hamish@cloud.net.au>
Date: Thu, 1 Jun 2000 19:05:22 +1000
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87793-2000.06.01-04.08.56--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On Mon, May 29, 2000 at 02:11:05PM -0400, Bob Bruninga wrote:
> Here is a radical Idea I have considered long ago, but now that we have

> someone actively writing digipeater software, it might be worth thinking
> about. We have GREAT advantage in keeping packets short with WIDEn-N.
> But we hvae no traceability back to the source other than encouraging
> everyone to include DIGI,WIDEn-N to start with.

I must be missing something -- why not just use callsign substitution?
It's slightly longer, but already administered. It also means that the
digipeater gets a chance to transmit its ID; without substitution,
it might never transmit its own ID (which is quite probably illegal).

> Now that we have someone to write the TNC ROM code for us. ANY ideas?

Callsign substitution is already implemented in PacComm for one.

Hamish

--

Hamish Moffatt VK3SB <hamish@debian.org> <hamish@cloud.net.au>

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8. [aprssig] Re: HamHud 100? B-) ?Model 100?

From: Doug Ferrell <kd4moj@kd4moj.org>
Date: Thu, 01 Jun 2000 06:28:32 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87796-2000.06.01-05.45.49--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

At 04:03 AM 06/01/2000 -0000, Jeff Brenton wrote:
>Hmmm... all those old TRS-80 Model 100 computers would make a heck of a
>"HamHud" type display unit... B-)

Hey now that is an idea!

...DOUG
kd4moj

<http://www.tallahassee-scanner.com> Scanning Tallahassee Florida
Linux: reboots are for upgrades

```
+-----+
| Doug Ferrell                               Voice (850) 575-7119 |
| kd4moj@kd4moj.org, http://www.kd4moj.org       Fax (850) 575-6577 |
| Amateur Radio & Television (ATV), APRS      APRS 144.390 Mhz |
| 3027.27N / 08420.80W Tallahassee Florida    131.8 CTCSS 444.400 Mhz |
+-----+
```

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9. [aprssig] Radio Converter Source?

From: "Ev Tupis (W2EV)" <propnet@greeceny.com>
Date: Thu, 01 Jun 2000 06:50:55 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87799-2000.06.01-05.55.49--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Does anyone know of a source for commercial radios that are converted
for use in the amateur band? Most specifically, I'm interested in
finding someone who converts VHF Low transceivers for use on 6-meter FM
(yes, for packet).

I'm getting a lot of eMails from folks who want more power than the
Alinco (20-watts) but cant justify \$700+ for a used multimode that would
have 100 watts.

Ev, W2EV

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10. [aprssig] Re: WinAPRS VHF only display

From: "Mike Cox" <ki5df@home.com>
Date: Thu, 1 Jun 2000 06:05:17 -0500

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87800-2000.06.01-06.13.51--lyris.aprssi#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Oopps..Sorry Jim, I did misstate the the name of the menu item....you are correct, it does say "Direct stations only" rather than "Display local stations only". I run an Igate here in OKC, and I keep 4 different map windows open all the time. I have one of the windows tabbed for "Direct stations only" and I always see stations from Tulsa and NW Arkansas in that window. Most of those stations come to me with at least 2 hops, sometimes 3 hops, on vhf.

73, Mike Cox
ki5df@home.com
<http://aprs.rass.org/>

----- Original Message -----

From: Jim Gill <gillj@uswest.net>
To: Mike Cox <ki5df@home.com>; TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Sent: Wednesday, May 31, 2000 10:20 PM
Subject: Re: [aprssig] Re: WinAPRS VHF only display

> This option is not there... I know APRSplus has this, but I'll be darned if

> I see that in the Display menu on WinAPRS 2.4.5. All I see is "Direct Stations Only", which won't show stations that may have been VHF but at least one hop or more away.

>
> Jim Gill
> NØRMO
>

> ----- Original Message -----

> From: "Mike Cox" <ki5df@home.com>
> > Sure, just go to "display" on the tool bar then scroll down to "Display > > local stations only". You could also have more than one window open and > > select different display features for each window.

>
> > ----- Original Message -----

> > From: Ben Miller <benm@uniplex.com>
> > > I think this thread went around earlier but want to confirm. When > WinAPRS
> > > is on VHF and Internet can you restrict the display to only those > stations
> > > received via VHF?
>
>

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11. [aprssig] Battery for Citadel

From: "Scott-KC5JGV" <kc5jgv@bobcats2.oursc.k12.ar.us>
Date: Thu, 1 Jun 2000 06:57:49 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87802-2000.06.01-07.06.36--lyris.aprssi#tapr.org@lists.tapr.org>
Rendered body type: text/plain

If you need a BIOS backup battery for the Citadel, here is a source.

Go to www.resource800.com->Clock/CMOS RAM->IBM Compatible->Encapsulated batteries. You want FB 2325. They are \$16.00.

73

J. Scott Ratchford

Amateur Radio Callsign - KC5JGV

APRS Computers
www.geocities.com/jsratchford/citadel_1.htm

New Web Site
www.aprs-help.com (coming soon!)

Member Calf Creek Lodge #426 Snowball, AR

(That's between Loafer's Glory and Point Peter!)

Searcy County Sheriff's Office

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12. [aprssig] 12 more 486's

From: "Scott-KC5JGV" <kc5jgv@bobcats2.oursc.k12.ar.us>
Date: Thu, 1 Jun 2000 07:01:39 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87803-2000.06.01-07.06.38--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I found a dozen more of the 486 TYPE 1's (12v Mobile Touch Screen APRS PC's) in the storage shed. These are first come first serve. However, I'm asking for those that are interested to also purchase a 386 TYPE 2 with it. We need to move these systems!

Thanks

J. Scott Ratchford

Amateur Radio Callsign - KC5JGV

APRS Computers
www.geocities.com/jsratchford/citadel_1.htm

New Web Site
www.aprshelp.com (coming soon!)

Member Calf Creek Lodge #426 Snowball, AR
(That's between Loafer's Glory and Point Peter!)

Searcy County Sheriff's Office

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

13. [aprssig] Re: WinAPRS VHF only display

From: "Ben Miller" <benm@uniplex.com>
Date: Thu, 1 Jun 2000 07:22:51 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87808-2000.06.01-07.25.42--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Mike and all,

Maybe I'm having some different results here. If I select "Direct Stations Only", I only see those stations that have not been digipeated. (Those stations that my radio heard their radio.)

If you select the List - ProtoPath list option, you will see a column "Loc". If the station has been received via VHF then they will be listed as "Loc" in that column. There are many more stations listed as "Loc" than there are on the "Direct Stations Only" map.

I want a map that sees those listed as "Loc" in the ProtoPath list.

Do I have what I described correct?

Thanks all,

Ben Miller
KC5NFU

-----Original Message-----

From: bounce-aprssig-15665@lists.tapr.org
[mailto:bounce-aprssig-15665@lists.tapr.org] On Behalf Of ki5df@home.com
Sent: Thursday, June 01, 2000 6:05 AM
To: aprssig@lists.tapr.org
Subject: [aprssig] Re: WinAPRS VHF only display

Oopps..Sorry Jim, I did misstate the the name of the menu item.....you are

correct, it does say "Direct stations only" rather than "Display local stations only". I run an Igate here in OKC, and I keep 4 different map windows open all the time. I have one of the windows tabbed for "Direct stations only" and I always see stations from Tulsa and NW Arkansas in that window. Most of those stations come to me with at least 2 hops, sometimes 3 hops, on vhf.

73, Mike Cox
ki5df@home.com
<http://aprs.rass.org/>

----- Original Message -----

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To: Mike Cox <ki5df@home.com>; TAPR APRS Special Interest Group
<aprssig@lists.tapr.org>
Sent: Wednesday, May 31, 2000 10:20 PM
Subject: Re: [aprssig] Re: WinAPRS VHF only display

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> I see that in the Display menu on WinAPRS 2.4.5. All I see is "Direct
> Stations Only", which won't show stations that may have been VHF but at
> least one hop or more away.

>

> Jim Gill

> NØRMO

>

> ----- Original Message -----

> From: "Mike Cox" <ki5df@home.com>

> > Sure, just go to "display" on the tool bar then scroll down to "Display
> > local stations only". You could also have more than one window open and
> > select different display features for each window.

>

> > ----- Original Message -----

> > From: Ben Miller <benm@uniplex.com>

> > > I think this thread went around earlier but want to confirm. When
> WinAPRS

> > > is on VHF and Internet can you restrict the display to only those
> stations

> > > received via VHF?

>

>

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14. [aprssig] Re: Mixing 2 callsigns !?

From: Alex <kg4ecv@amsat.org>
Date: Thu, 01 Jun 2000 09:06:32 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Message-ID: <LYR842-87813-2000.06.01-08.00.51--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Thanks for the suggestion, Davis. I'm sure it is. I received those packets on Linux running a soundmodem, and I'm not sure if you can set passall to off at all. Maybe someone on here knows? It's very rare that it happens though.

73s,
de Alex

David VanHorn wrote:

>

> -----BEGIN PGP SIGNED MESSAGE-----

> Hash: SHA1

>

> At 10:17 AM 5/31/00 -0400, Alex wrote:

> >Same happened to me twice on the same night on RF while testing TinyTrak


```

> >a couple of weeks ago. My position info too was mixed with someone
> >else's call sign. Interesting phenomenon.
>
> I wonder if you had passall set to on?
> This is exceedingly unlikely to happen, and result in a good CRC on the
> packet.
>
> - --
> Are you an ISP? Tired of spam?
> www.spamwhack.com A pre-emptive strike against spam!
>
> Where's Dave? http://www.findu.com/cgi-bin/find.cgi?kc6ete-9
>
> -----BEGIN PGP SIGNATURE-----
> Version: PGPfreeware 6.5.2 for non-commercial use <http://www.pgp.com>
>
> iQA/AwUBOTVDe4f1GDz116VWEQKHawCe0/OyXRyYtq2Fk0BoWoRmZ2H/IKUAoMau
> X0DuwekAH2pIlxBqV8wVTXx6
> =PjKx
> -----END PGP SIGNATURE-----

```

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15. [aprssig] Trimble GPS

```

From: "PSCC" <pssc@one.net>
Date: Thu, 1 Jun 2000 09:07:57 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87815-2000.06.01-08.10.52--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

I am have of 3 Trimble Placer 400 GPS receivers. These are commercial units. They do not output NMEA data so they appear useless for APRS unless someone has a method to translate the Placer output format to something usable. Does anyone have any ideas?

Thanks & 73 de K9GPS Lee
 SE Indiana
 k9gps@one.net

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16. [aprssig] Re: Mixing 2 callsigns ?!?

```

From: Gerry Creager N5JXS <gerry@cs.tamu.edu>
Date: Thu, 01 Jun 2000 08:11:11 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Message-ID: <LYR842-87816-2000.06.01-08.14.29--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

Alex wrote:

```

>
> Thanks for the suggestion, Davis. I'm sure it is. I received those
> packets on Linux running a soundmodem, and I'm not sure if you can set
> passall to off at all. Maybe someone on here knows? It's very rare that
> it happens though.
>
> 73s,
> de Alex
>
> David VanHorn wrote:
> >
> > -----BEGIN PGP SIGNED MESSAGE-----
> > Hash: SHA1
> >
> > At 10:17 AM 5/31/00 -0400, Alex wrote:
> > >Same happened to me twice on the same night on RF while testing TinyTrak
> > >a couple of weeks ago. My position info too was mixed with someone
> > >else's call sign. Interesting phenomenon.
> >
> > I wonder if you had passall set to on?
> > This is exceedingly unlikely to happen, and result in a good CRC on the
> > packet.

```

I just started seeing this over the last couple of days. It became

obvious with a new compile of Xastir, but in reviewing logs, it's apparently consistent with one Digi (n5iut) for most/all of the mundging here.

I'm not convinced, because of the single nature of the local mundging, that it's necessarily an APRSServ issue.

73, gerry n5jxs

--

Gerry Creager gerry@cs.tamu.edu, gerry@page4.cs.tamu.edu
Network Engineering |Geodesy
Computer Science Department |Satellite Geodesy and Control
Texas A&M University |
979.458.4020

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17. [aprssig] WinAPRS 2.4.6 released

From: Mark Sproul <kb2ici@amsat.org>
Date: Thu, 01 Jun 2000 09:07:57 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87817-2000.06.01-08.17.30--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have put LOTS of work into the stability of WinAPRS taking into account all of the feedback I have gotten from the sig. I hope this version works better.

Mark

WinAPRS Version 2.4.6 - Jun 1, 2000
MacAPRS Version 3.4.6
X-APRS Version 0.0.6

LOTS OF WORK ON WINDOWS STABILITY
Finished support for UTM format maps
Fixed DX Cluster message parsing so no more messages from "de" show up in the msg list
Fixed bug in display of station tracks
Fixed some message sending bugs
Serial I/O working on X-APRS
Dialogs working on X-APRS
Fixed bug in VHF data bit setting (was hard coded to 8 bits)
Fixed a few bugs associated with the Kenwood radios such as properly decoding the ambiguity values.

Windows Version

Rutgers site at ftp://aprs.rutgers.edu/pub/hamradio/APRS/WinAPRS/
TAPR site at ftp://ftp.tapr.org/aprssig/winstuff/WinAPRS/

Mark Sproul	
Software Engineer @ Assoc Press	Work: 609-860-7120
msproul@apmail.ap.org	Fax: 609-860-7129
kb2ici@amsat.org (either is OK)	

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

18. [aprssig] Re: Mixing 2 callsigns !?

From: Bill Diaz <billdiaz@megsinet.net>
Date: Thu, 1 Jun 2000 09:22:29 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87823-2000.06.01-09.26.50--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

It is also likely that the data corruption and mixing of callsigns is being caused by improperly formatted headers. It is not unusual to see headers containing timestamps or other information not specified in the protocol.

Some applications may interpret the colons in the timestamp [06/01/00 09:09:09] as the end of the header or start of the payload.

Headers need to be formatted properly to ensure that the data is handled correctly.

Bill KC9XG

On Thursday, June 01, 2000 8:11 AM, Gerry Creager N5JXS

[SMTP:gerry@cs.tamu.edu] wrote:

> Alex wrote:

> >

> > Thanks for the suggestion, Davis. I'm sure it is. I received those

> > packets on Linux running a soundmodem, and I'm not sure if you can set

> > passall to off at all. Maybe someone on here knows? It's very rare that

> > it happens though.

> >

> > 73s,

> > de Alex

> >

> > David VanHorn wrote:

> > >

> > > -----BEGIN PGP SIGNED MESSAGE-----

> > > Hash: SHA1

> > >

> > > At 10:17 AM 5/31/00 -0400, Alex wrote:

> > > > Same happened to me twice on the same night on RF while testing TinyTrak

> > > > a couple of weeks ago. My position info too was mixed with someone

> > > > else's call sign. Interesting phenomenon.

> > >

> > > I wonder if you had passall set to on?

> > > This is exceedingly unlikely to happen, and result in a good CRC on the

> > > packet.

> >

> I just started seeing this over the last couple of days. It became

> obvious with a new compile of Xastir, but in reviewing logs, it's

> apparently consistent with one Digi (n5iut) for most/all of the munging

> here.

>

> I'm not convinced, because of the single nature of the local munging,

> that it's necessarily an APRSServ issue.

>

> 73, gerry n5jxs

> --

> Gerry Creager gerry@cs.tamu.edu, gerry@page4.cs.tamu.edu

> Network Engineering |Geodesy

> Computer Science Department |Satellite Geodesy and Control

> Texas A&M University |

> 979.458.4020

>

> ---

> You are currently subscribed to aprssig as: BILLDIAZ@MEGSINET.NET

> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org

To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

19. [aprssig] Re: Mixing 2 callsigns ?!?

From: Ian Wade <Ian.Wade@care4free.net>

Date: Thu, 1 Jun 2000 16:38:01 +0100

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Message-ID: <LYR842-87847-2000.06.01-10.50.26--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

In article <LYR14778-87823-2000.06.01-09.26.50--Ian.Wade#care4free.net@lists.tapr.org>, Bill Diaz <billdiaz@megsinet.net> writes

>Headers need to be formatted properly to ensure that the data is handled
>correctly.

True, but the receiving software should be bright enough to strip out any garbage -- i.e. TNC timestamps, packet types (e.g. <UI>), spaces etc. Be tolerant in what you receive.

There's no excuse in the year 2000 for software to fall over when it receives something that could reasonably be expected to be there (such as

timestamps in TNC headers, or spaces instead of tabs). I know, these things *shouldn't* be there, but until we can specify everything down to the last nut and bolt, we have to use our imagination a little about what *could* be there! We have to remember that ordinary (sometimes not very computer-literate) people use these systems, and people make silly mistakes sometimes. Those mistakes shouldn't be allowed to crash an app or the network.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

***** Third draft now available *****

--

```
+-----+
| APRS on 144.800 [I0915X] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
|
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

20. [aprssig] Re: Mixing 2 callsigns !?!

From: Bill Diaz <billdiaz@megsinet.net>

Date: Thu, 1 Jun 2000 11:02:54 -0500

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Message-ID: <LYR842-87851-2000.06.01-11.05.53--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

Ian,

If all applications were well behaved we wouldn't be discussing this problem.

The sad fact is that the data stream contains considerable amounts of improperly formatted data that does not conform to the spec. Garbage in, Garbage out.

If an application was truly APRS compliant, it would not permit improperly formatted, or corrupt packets onto the data stream. Compliant applications should eliminate packets that do not conform to the spec.

Do we have any applications that are fully compliant? I think not.

Bill KC9XG

On Thursday, June 01, 2000 10:38 AM, Ian Wade [SMTP:Ian.Wade@care4free.net] wrote:

> In article <LYR14778-87823-2000.06.01-09.26.50--Ian.Wade#care4free.net@lists.tapr.org>, Bill Diaz <billdiaz@megsinet.net> writes

>

>

> >Headers need to be formatted properly to ensure that the data is handled >correctly.

>

>

> True, but the receiving software should be bright enough to strip out any > garbage -- i.e. TNC timestamps, packet types (e.g. <UI>), spaces etc. Be > tolerant in what you receive.

>

> There's no excuse in the year 2000 for software to fall over when it > receives something that could reasonably be expected to be there (such as > timestamps in TNC headers, or spaces instead of tabs). I know, > these things *shouldn't* be there, but until we can specify everything > down to the last nut and bolt, we have to use our imagination a little > about what *could* be there! We have to remember that ordinary (sometimes > not very computer-literate) people use these systems, and people make > silly mistakes sometimes. Those mistakes shouldn't be allowed to crash an > app or the network.

>

> 73

> Ian, G3NRW

> Technical Editor, APRS Protocol Specification

> ***** Third draft now available *****

> --

```
+-----+
> | APRS on 144.800 [I0915X] ~55km/35 miles NNW of London |
> | email: g3nrw@arrl.net |
> |
```

```
> | APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html|
> | APRS DECODER:        http://www.netro.co.uk/aprs.htm          |
> +-----+
>
> ---
> You are currently subscribed to aprssig as: BILLDIAZ@MEGSINET.NET
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
---
You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
```

21. [aprssig] Re: DIGI XX ID's

```
From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 1 Jun 2000 12:45:24 -0400 (EDT)
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Message-ID: <LYR842-87864-2000.06.01-11.48.19--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

On Thu, 1 Jun 2000, Hamish Moffatt wrote about Bob's reverse-pathing
WIDEN-N idea:

```
> I must be missing something -- why not just use callsign substitution?
> It's slightly longer, but already administered.
```

This idea does not replace the TRACEN-N which is as you say a perfect
TRACEable path. But this was just an idea to add full traceability and
reverse pathing to the MUCH shorter WIDEN-N packets. NOTE: with the
Kenwoods and Mic-E's, almost all mobiles are now using the very short
Mic-E format)...

Thus it does not make sense to be including 49 bytes worth of PATH info in
every single packet when the data is only 9 byte.

The idea I suggested would add only 14 instead of 49 bytes for a 7 hop
packet or only 7 bytes instead of 21 for a 3 hop packet...

de WB4APR, Bob

```
---
You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
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```

22. [aprssig] Position rate

```
From: "Don AC7CO" <dmcpherson1@uswest.net>
Date: Thu, 1 Jun 2000 10:25:01 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87875-2000.06.01-12.24.14--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

I've been unable to find anything on what is an acceptable rate for transmitting position in a mobile.
I would like to transmit often enough but not be considered an annoyance.
Does anyone have any input as to what is normally used for mobile long distance travel?

Thanks in advance

Don AC7CO
ac7co@arrl.net

23. [aprssig] Re: WinAPRS 2.4.6 released

```
From: Mark Sproul <kb2ici@amsat.org>
Date: Thu, 01 Jun 2000 13:36:04 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87876-2000.06.01-12.41.00--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

It has been brought to my attention that in my work to incorporate
Precision Mapping 4.0, WinAPRS 2.4.6 does not support the older PM. If you
use PM, please do not download 2.4.6, a new version will be posted
tomorrow.

Thanks

Mark Sproul

Mark Sproul
Software Engineer @ Assoc Press |
msproul@apmail.ap.org | Work: 609-860-7120
kb2ici@amsat.org (either is OK) | Fax: 609-860-7129

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24. [aprssig] Re: Position rate

From: David VanHorn <dvanhorn@cedar.net>
Date: Thu, 01 Jun 2000 13:08:07 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87882-2000.06.01-13.34.56--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

At 10:25 AM 6/1/00 -0700, Don AC7CO wrote:

>
> I've been unable to find anything on what is an acceptable rate for
> transmitting position in a mobile.
> I would like to transmit often enough but not be considered an annoyance.
> Does anyone have any input as to what is normally used for mobile long
> distance travel?

A Hamhud :) The HH only talks when it has something to say. (turned left here
etc)

If you have a KPC-3, you can do a dual rate tracker, 15 mins fixed, and 120S
mobile?
Just depends on how fast you're going and the areas.

- - -

Are you an ISP? Tired of spam?
www.spamwhack.com A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----
Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBOTbCp4F1GDz116VWEQLsZQCg18Jv3QIvh/djsLEsH9MxeGfWV0gAo0ct
V08uwDqFr40UB6MYK3pX2wUF
=wn1p

-----END PGP SIGNATURE-----

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

25. [aprssig] DME type HT's

From: "Sadowski, Allan" <allan.sadowski@ncshp.org>
Date: Thu, 1 Jun 2000 14:39:55 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87883-2000.06.01-13.39.29--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have seen advertisements for HT's that give distance... they are not APRS
or GPS devices.. but rather it's some sort of DME type process....

Anyone know the radio's in question? and, what is the location accuracy
(range only) of the radios???

ALOHA
AH6LS

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26. [aprssid] Re: WinAPRS 2.4.6 released

From: Mark Sproul <kb2ici@amsat.org>
Date: Thu, 01 Jun 2000 14:36:41 -0400
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Message-ID: <LYR842-87886-2000.06.01-13.46.29--lyris.aprssid#tapr.org@lists.tapr.org>
Rendered body type: text/plain

More info on PM and 2.4.6

If you have 4.0 installed and you have 3.x installed, then it will not work. If you ONLY have 3.x installed on your machine, then 2.4.6 should work just fine.

Sorry for the confusion.

Mark

Mark Sproul	
Software Engineer @ Assoc Press	Work: 609-860-7120
msproul@apmail.ap.org	Fax: 609-860-7129
kb2ici@amsat.org (either is OK)	

You are currently subscribed to aprssid as: lyris.aprssid@tapr.org
To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org

27. [aprssid] Re: WinAPRS 2.4.6 released

From: David VanHorn <dvanhorn@cedar.net>
Date: Thu, 01 Jun 2000 13:42:44 -0700
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Message-ID: <LYR842-87890-2000.06.01-13.59.56--lyris.aprssid#tapr.org@lists.tapr.org>
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

At 02:36 PM 6/1/00 -0400, Mark Sproul wrote:
>More info on PM and 2.4.6
>
>If you have 4.0 installed and you have 3.x installed, then it will not
>work. If you ONLY have 3.x installed on your machine, then 2.4.6 should
>work just fine.

Works here, 2.4.6 on PM3.0 no problem.

- - -

Are you an ISP? Tired of spam?
www.spamwhack.com A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----
Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBOTbKxIFlGDz1l6VWEQJ/tQCgtsFxxIwNLtNBC6nieCCIpFChaLUaOICE
u7+ExdwVtQYBfMSzovkWtnr
=7j2I
-----END PGP SIGNATURE-----

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To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org

28. [aprssid] Re: Mixing 2 callsigns !?

From: rboast@itexas.net (Roy Bost)
Date: Thu, 1 Jun 2000 17:01:21 -0500
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Cc: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Message-ID: <LYR842-87911-2000.06.01-17.04.13--lyris.aprssid#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The mixing of packets is not a new problem! I've seen it off and on for over a year. I use KPC-3's and WinAPRS. To see mangled packets all I have to do

is to connect to the remote side of one of my KPC-3 digi's and send some commands to the tnc! I usually have to clean up my station list after such a session. I don't think the terminal mode is very polite...will send the commands as soon as I hit the enter key and will keep trying until it gets an ack back.

Roy Bost N5TAM
rbost@itexas.net

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

29. [aprssig] Re: Position rate

From: "Lumpy" <lumpy@digitalcartography.com>
Date: Thu, 1 Jun 2000 16:08:09 -0600
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87912-2000.06.01-17.06.19--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Don AC7CO wrote:

> ...what is an acceptable rate for
> transmitting position in a mobile...

> ...what is normally used for
> mobile long distance travel?...

Hello Don -
Could you elaborate a bit on -

What flavor of APRS (Win/DOS/MAC/SA) or
standalone tracker or something else?

What kind of TNC?
What power radio?
What UI path?
How many digis within range?

It would help, I think, to know where you are
at. Long distance travel could mean two very
different things if you are in
Wyoming vs Los Angeles.

Where you are at will also help define
how often you can beacon without being
a 'nuisance' to the network. In Colorado,
I can get away with 3 minute beacons if
I'm doing some special experiment and I
let the network know ahead of time. Plus
beacons in the mountains tend to land in
packet hell and not get xmitted. End result
of my 3 min beacon rate might really be one
packet every 20 minutes. Doing that in
Miami would probably be inappropriate,
to say the least.

It's all VERY relative to where you are at
and how saturated the net is already.

Lumpy n0eq
--
The Very Unofficial Colorado APRS Page
<http://www.digitalcartography.com>

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

30. [aprssig] Re: DIGI XX ID's

From: Hamish Moffatt <hamish@cloud.net.au>
Date: Fri, 2 Jun 2000 08:20:15 +1000
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87914-2000.06.01-17.23.35--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

On Thu, Jun 01, 2000 at 12:45:24PM -0400, Bob Bruninga wrote:

> On Thu, 1 Jun 2000, Hamish Moffatt wrote about Bob's reverse-pathing

> WIDEn-N idea:

>

> > I must be missing something -- why not just use callsign substitution?

> > It's slightly longer, but already administered.

>

> This idea does not replace the TRACEn-N which is as you say a perfect

> TRACEable path. But this was just an idea to add full traceability and

> reverse pathing to the MUCH shorter WIDEn-N packets. NOTE: with the

> Kenwoods and Mic-E's, almost all mobiles are now using the very short

> Mic-E format)...

I don't see how callsign substitution is linked to TRACEn-n. We already use callsign substitution here for RELAY and WIDE digipeaters. I simply can't see a reason not to, personally.

Although I understand why you want to shorten data packets, I don't think assigning new IDs to every digipeater just to save a few bytes is worth the effort. In my opinion it is better to either not use any substitution at all, or use proper callsigns.

Hamish

--

Hamish Moffatt VK3SB <hamish@debian.org> <hamish@cloud.net.au>

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

31. [aprssig] Re: WinAPRS 2.4.6 released

From: David VanHorn <dvanhorn@cedar.net>

Date: Thu, 01 Jun 2000 17:09:00 -0700

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Message-ID: <LYR842-87915-2000.06.01-17.26.28--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

>WinAPRS Version 2.4.6 - Jun 1, 2000

>MacAPRS Version 3.4.6

>X-APRS Version 0.0.6

> Fixed bug in display of station tracks

Almost, but not quite.

My track from today shows several diagonals that are impossible, but it is DRASTICALLY improved.

The stale packets over the net are still there, my icon is out wandering the town right now, even though the car is still at home.

MOST curious though, I've got this annoying blue dot (DR object?) that is wandering around my screen doing the "radar circles", and I can't regain control of the system.

I didn't put any objects up, and I don't know what it's linked to, because i can't get control for long enough to find out.

- --

Are you an ISP? Tired of spam?

www.spamwhack.com A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----

Version: PGPFreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUB0Tb7HIFlGDz1l6VWEQIn3wCeNYDjKl/yD3ZLFab4ZP87kDp2wmcAnR06

N4X0nN1pKc968qL8iwNnDW0f

=GNyw

-----END PGP SIGNATURE-----

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

32. [aprssig] Who has?

From: "Scott-KC5JGV" <kc5jgv@bobcats2.oursc.k12.ar.us>
Date: Thu, 1 Jun 2000 18:42:07 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87926-2000.06.01-18.48.36--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Could the following authors and equipment developers please contact me directly at: kc5jgv@arri.net. Thanks in advance.

HAMHUD
PalmAPRS
WinCE APRS

J. Scott Ratchford

Amateur Radio Callsign - KC5JGV

APRS Computers
www.geocities.com/jsratchford/citadel_1.htm

New Web Site
www.aprshelp.com (coming soon!)

Member Calf Creek Lodge #426 Snowball, AR
(That's between Loafer's Glory and Point Peter!)

Searcy County Sheriff's Office

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

33. [aprssig] Boats

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 1 Jun 2000 20:13:09 -0400 (EDT)
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87932-2000.06.01-19.16.30--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Academy Boats are underway on APRS.

<http://web.usna.navy.mil/~bruninga/aprs.html>

Follow Link to ACADEMY BOATS. Messages and STATUS are not shown on this page, since that information is restricted to official use only. But I thought this plot using javapr would be a good demonstration of how well a 6 mhz freq works for tracking...

de WB4APR, Bob

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

34. [aprssig] Re: WinAPRS 2.4.6 released

From: "Dick Stanich" <dstanic@c2i2.com>
Date: Thu, 1 Jun 2000 19:27:13
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87934-2000.06.01-19.29.55--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On 06/01/00, "Mark Sproul <kb2ici@amsat.org>" wrote:

> More info on PM and 2.4.6

>

> If you have 4.0 installed and you have 3.x installed, then it will not
> work. If you ONLY have 3.x installed on your machine, then 2.4.6 should
> work just fine.

>

3.5 also works great. Also, I am seeing almost 2 lines of info. coming in on the data stream window on the msg. screen. Now if that window was opened to 2 lines... It would display better.

Tested the WX warning data to VHF local. Counties and zones display and work correctly. They even expire! That will make Dale happy, along with the rest of us.

Dick, KB7ZVA
Yuma Digipeater - Wormhole

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35. [aprssig] Re: WinAPRS 2.4.6 released

From: David VanHorn <dvanhorn@cedar.net>
Date: Thu, 01 Jun 2000 19:15:07 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87938-2000.06.01-19.32.43--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

>Tested the WX warning data to VHF local. Counties and zones display and
>work correctly. They even expire! That will make Dale happy, along with the
>rest of us.

You mean on top of PM maps???? :))

- - -

Are you an ISP? Tired of spam?
www.spamwhack.com A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----
Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBOTcYq4F1GDz1l6VWEQK7ZgCgh0/5uMuJmXxeiFEfAAUAaz3mTZEAnRHB
gvwmXqdqdoI6u+WAo2M7E0Jt
=mpHQ
-----END PGP SIGNATURE-----

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36. [aprssig] Re: DIGI XX ID's

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 1 Jun 2000 20:43:13 -0400 (EDT)
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Message-ID: <LYR842-87942-2000.06.01-19.46.25--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On Fri, 2 Jun 2000, Hamish Moffatt wrote:

> I don't see how callsign substitution is linked to TRACEn-n. We already
> use callsign substitution here for RELAY and WIDE digipeaters. I simply
> can't see a reason not to, personally.

The problem is that CALLSIGN SUBSTITUTION is a lot of overhead AND it does not eliminate multi-path duplication. WIDEn-N eliminates all dupes *and* is much shorter effectively quadrupling channel capacity.

- 1) The packets are much shorter. 50% shorter packets DOUBLES channel capacity
- 2) WIDEn-N does all-inclusive DUPE elimination. Callsign substitution only eliminates dupes from the same digi. Thus you may still get 2 to 4 dupes of every packet in some areas. WIDEn-N, can thus again double or more the channel capacity.

You may not need it down there, but in congested areas in the USA, a tripling or quadrupling of channel capacity is very important.

Compare this CALLSIGN SUBSTITUTED PACKET (probably duped a few times):

```
W4AB>SY03UP,WB4APR-11,KA3TAY-12,KB3BMV-13,WA3TAY-14,WB7GAY-15*:'lllcse/>
W4AB>SY03UP,WA3FYN-10,KA3TAY-12,KB3BMV-13,WA3TAY-14,WB7GAY-15*:'lllcse/>
```

With this single, unduplicated WIDEn-N packet:

```
W4AB>SY03UP,WIDE5:'lllcse/>
```

And I hope you can see the FOUR-to-ONE difference. So that is what we have with WIDEn-N. (but you lose path data). Now what I am proposing would add 7 or 14 bytes to the WIDEn-N packet, but recover the path data. AND it is backwards compatible. Meaning it can be phased in as appropriate..

The packet would look like: W4AB>SY03UP,A1B2C3,D4E5,WIDE5:'lllcse/>

after having traversed the digis A1, B2, C3, D4 and E5.
The digi A1 is still WB4APR-11, but it just includes its ## in its beacon so that anyone needing to do a trace, has all the info he needs.

de WB4APR, Bob

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37. [aprssig] APRS remote DF reporting

From: "ROBERT SIMMONS" <pelican2@silcom.com>
Date: Thu, 1 Jun 2000 18:07:06 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87950-2000.06.01-20.13.41--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Greetings all.. I am new to this list, and (for that matter) packet and APRS. I have some questions about APRS formats for remote / automatic reporting of DF information.

I have recently built a Doppler DF, and (more recently) added a serial RS232 interface, using a PIC chip. I want to expand the DF capabilities so that it can generate APRS DF packets. Beyond that, I want to (eventually) build a "generic" Doppler to APRS interface, that will allow people to use DF's that they already own.

I have no previous experience with packet or APRS, but I suspect this project will be a good excuse to learn them. (at least, a little of them) I have obtained an article written by John Hansen, describing a basic APRS packet generator using a PIC chip. It is very detailed, but does not specifically address APRS DF format issues.

I have obtained a copy of the APRS spec from the TAPR website, and examined it. There seems to be a few different varieties of DF packet formats... one with time stamp, one without. I see no data field in the format for the timestamp data... is it transmitted as a separate packet ? There is also an AGRELO format.

My biggest question really involves the "end user" software... has anyone produced a popular / widely used applications program to display APRS DF information on a map ? I don't want to write a bunch of code to generate a message that no-one uses. Might I be better off generating "plain text" messages that can be comprehended by mere mortals ?

The Doppler can be viewed at my website : www.silcom.com/~pelican2

Thanks / regards
Bob Simmons / WB6EYV

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38. [aprssig] Looking good on SO-35

From: N4QWF@aol.com
Date: Thu, 1 Jun 2000 21:28:43 EDT
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Message-ID: <LYR842-87955-2000.06.01-20.31.56--lyris.aprssid@lists.tapr.org>
Rendered body type: text/plain

These are the stations seen here via S0-35 during the 21:07EDT pass this evening. Good group fellows.

N7SFI-3
KB2WQM
KC8MZM-3
WA4SSP-6
N5ZNL
KB0VBZ-14
KB2WQM-9
KU0G-9
W3ADO

Keep up the good work. 73's << John

You are currently subscribed to aprssid as: lyris.aprssid@tapr.org
To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org

39. [aprssid] APRStk

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 1 Jun 2000 21:33:48 -0400 (EDT)
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Message-ID: <LYR842-87957-2000.06.01-20.37.00--lyris.aprssid@lists.tapr.org>
Rendered body type: text/plain

Wow 10 people on SUNSAT tonight. 80% of them mobile!

I found out how to stop the crashing of APRStk Ver K11 so that it can run reliably and keep everyone's mobile rigs updated on the schedule and presence of the satellites:

* I edited my CONFIG.SYS down from 30 FILES to 10, and 20 BUFFERS to 10

And now APRStk V11 has run reliably for over 36 hours and still running (compared to 6 before). Thus, it just needed more memory.

To see how APRStk runing on a single 286 or better PC in your area can update the front panel displays of all Kenwood APRS radios on 144.39 to inform users of satellites in view or to be in view in next 80 minutes see...

<http://web.usna.navy.mil/~bruninga/satinfo.html>

de WB4APR, Bob

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To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org

40. [aprssid] Re: Looking good on S0-35

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 1 Jun 2000 21:40:19 -0400 (EDT)
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssid@lists.tapr.org>, htaprs@lists.tapr.org, TAPR APRS Satellite Special Interest Group <aprssid@lists.tapr.org>
Message-ID: <LYR842-87962-2000.06.01-20.43.04--lyris.aprssid@lists.tapr.org>
Rendered body type: text/plain

You beat me to it. I copied one more: N9IDH, and I noticed that 70% were D700's. I was using APRSdos, QWF using WinAPRS, ZNL using? and VBZ using a NMEA tracker.

My first time practicing with real APRS instead of just the mobile rig. AND I was keeping up with all 10 of you. I had outgoing messages to everyone... BUT!!! I forgot to set my path to SUNSAT until the very end, so none of you saw it! Wow, practice... practice... practice...
Cant wait till FD! de WB4APR, Bob

On Thu, 1 Jun 2000 N4QWF@aol.com wrote:

> These are the stations seen here via S0-35 during the 21:07EDT pass this

> evening. Good group fellows.
>
> N7SFI-3
> KB2WQM
> KC8MZM-3
> WA4SSP-6
> N5ZNL
> KB0VBZ-14
> KB2WQM-9
> KU0G-9
> W3ADO
>
> Keep up the good work. 73's << John

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41. [aprssig] Re: Mixing 2 callsigns

From: "Dick Stanich" <dstanic@c2i2.com>
Date: Thu, 1 Jun 2000 20:45:58
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87965-2000.06.01-20.48.41--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

As Bill Diaz mentioned garbage in and garbage out.

My question is very simple and basic. Does Winaprs support any error checking on its own? I assume it does not.

I have been using Afilter (Bill Diaz) with huge success. It not only traps errors from continuing to the client (Winaprs) but, I can log them! The error logs are interesting. Most common errors are 'zero' data from GPS units, along with bad position data. Afilter is a work of genius if you operate a digi worm-hole (Igate). It's not hard to understand the questions that arise about the use of APRS, when you review the logs.

Looking at over 2500 stations from coast to coast with over 800 data errors from fixed and mobile stations, in less than hour, is normal everyday garbage. Invalid callsigns, wrong positions, checksum errors, are not usually the result of collisions or duplicates. Screening errors does reduce un-necessary traffic in our valuable space, and more of it should be done at Igate and digi levels. Thanks to the 3rd party vendors that are working on software that help us see our mistakes, so they can be corrected. They work very hard and take their work seriously, without non-stop pats on the back. Development of this fantastic hobby is second to none! It deserves our attention.

Dick Stanich, KB7ZVA
Southwest Arizona APRS Group
Yuma Digi - Wormhole - Igate

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42. [aprssig] Re: Radio Converter Source?

From: Bob Boehm <n8exf@juno.com>
Date: Thu, 1 Jun 2000 21:21:57 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: aprssig@lists.tapr.org
Message-ID: <LYR842-87968-2000.06.01-21.15.56--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Check out wa8dfd@freewwwb.com - John had a bunch of GE Deltas on 6m - or maybe WB8ZDF. I do not remember Sam's email address (it was/is something at wpafb.gov) but Sam is OK in the callbook and phone book. He too has a web page that has info on converting Deltas to 6m - you will need to search on him (sorry!) ALSO www.nhrc.com has a lot of info on GE MASTR II's.
Bob

On Thu, 01 Jun 2000 06:50:55 -0400 "Ev Tupis (W2EV)"
<propnet@greeceny.com> writes:
> Does anyone know of a source for commercial radios that are converted
> for use in the amateur band? Most specifically, I'm interested in
> finding someone who converts VHF Low transceivers for use on 6-meter
> FM

> (yes, for packet).
>
> I'm getting a lot of eMails from folks who want more power than the
> Alinco (20-watts) but cant justify \$700+ for a used multimode that
> would
> have 100 watts.

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43. [aprssig] Problem Found?

From: "Joel B. Black" <jbblack@mindspring.com>
Date: Thu, 1 Jun 2000 21:40:57 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87972-2000.06.01-21.43.42--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I may have found my problem. While watching WinAPRS initialize my TNC, I
watched the following command go by:

unproto APW246 via

Shouldn't this be unproto APRS via SUNSAT? As you can see, the above line
doesn't even contain a via. How can I keep WinAPRS from initializing this
line?

May be just shooting in the dark, but I noticed it nonetheless.

Joel B. Black, K2SAT
AMSAT.....32589
AMSAT Local Area Coordinator
k2sat@amsat.org
<http://www.mindspring.com/~jbblack>
A0-10, A0-27, F0-20, F0-29, S0-35, U0-14
T0-31, U0-22, U0-36

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44. [aprssig] Re: Position rate

From: Bobbbe@aol.com
Date: Thu, 1 Jun 2000 23:34:31 EDT
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87980-2000.06.01-22.37.51--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

In a message dated 6/1/00 1:36:00 PM EST, dvanhorn@cedar.net writes:

<< If you have a KPC-3, you can do a dual rate tracker, 15 mins fixed, and
120S
mobile?

Just depends on how fast you're going and the areas.

>>

WHAT!! Isn't that a bit excessive?

wd9bbe

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45. [aprssig] Re: Problem Found?

From: "Dick Stanich" <dstanic@c2i2.com>
Date: Thu, 1 Jun 2000 22:40:24
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87982-2000.06.01-22.43.07--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Create a file called InitVHF.TNC that goes in the same directory as Winaprs.exe. You can set any TNC commands you want in that file. As many as you like.

Example:

```
UNPROTO APRS VIA OUTERSPACE
CD SOFTWARE
PID OFF
HID OFF
BTEXT Help me!
BEACON EVERY 59
```

This is the last file winaprs reads when you re-init your TNC. Make it as large as you like. One tnc command per line.

Dick, KB7ZVA

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46. [aprssig] Re: Position rate

From: "Dick Stanich" <dstanic@c2i2.com>
Date: Thu, 1 Jun 2000 22:57:12
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87984-2000.06.01-22.59.51--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On 06/01/00, "'Don AC7CO" <dmcpherson1@uswest.net>" wrote:
> This is a multi-part message in MIME format.
>
>
> I've been unable to find anything on what is an acceptable rate for =
> transmitting position in a mobile.
> I would like to transmit often enough but not be considered an =
> annoyance.
> Does anyone have any input as to what is normally used for mobile long =
> distance travel?
>
> Thanks in advance

Go to your logs and see how often the hams in your area are sending data. Or, ask a local guru. When you stop for any period of time, turn off your radio. And always fire up your GPS, TNC, and radio... in that order. Wait for your GPS to find sats, then turn on the TNC, then radio.

More than 60 positions an hour might be considered excessive for your area. Be kind to your local network.

Dick, KB7ZVA

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

47. [aprssig] Re: question on DB 25->9 pin

From: "Mike" <k0coy@kctera.net>
Date: Thu, 1 Jun 2000 23:00:49 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87985-2000.06.01-23.00.06--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Mike...
Haven't seen the web site mentioned, but I've found two distinct versions of 25 to 9 adapters. Almost always, they will reverse the pins 2 and 3. Finally, pin 7 of the db-25 becomes pin 5 on the db-9. This is the absolute minimum necessary connections. There may be others needed, such as handshaking pins, which depend on the equipment you're hooking up. Pin 1 on the db-25 usually ends up on pin 1 of the db-9, but also depends on the manufacturer of the adapter. I doubt you'll fry anything, but, if in doubt, measure, measure, measure.

73...
Mike
k0coy@kctera.net

naecatec@yahoo.com
shall@ks.freei.net
k0coy@qsl.net
bearcat@ureach.com
Just keep on keeping on!

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48. [aprssig] GPS and radios/cell phones

From: "Mark D. Conner" <mconner@null.net>
Date: Thu, 1 Jun 2000 22:56:03 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87986-2000.06.01-23.02.23--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi SIGgers,

How possible is it to have a GPS receiver sensitive enough to get a decent position, when we typically keep our rigs/phones in places that are usually well-shielded from GPS signals?

For example, if I put my Garmin 12XL on the passenger seat next to me, it can take forever and a day to get a position lock. On the dash where it has a much better view of the sky, it will lock in within 30-60 sec. Can we expect a dinky patch antenna on a cell phone to give a decent position when we have the phone in our pants or shirt pocket inside a car?

I'm just thinking that if I carried my Garmin the same way I carry my cell phone, a lot of times it won't have a very good position lock.

I thought I read that the positioning for cell phone users would be done by triangulation among receive sites rather than any sort of GPS technology (other than using GPS as a time hack for the receive sites).

73 de Mark N9XTN

Mark D. Conner
E-mail: mconner@null.net n9xtn@arrl.net
Homepage: <http://members.home.net/mconner1>
"Arrogance and stupidity, all in the same package....how efficient of you!" - Ambassador Londo Mollari, Babylon 5

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

49. [aprssig] Re: WinAPRS 2.4.6 released

From: Skip Allison <sallison@megsinet.net>
Date: Thu, 01 Jun 2000 23:14:44 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87989-2000.06.01-23.18.26--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Does this mean 2.4.6 works with PM 4.0? Does it require a special version of 4.0? Special OCX?

Skip
K9SA

Mark Sproul wrote:

>

> It has been brought to my attention that in my work to incorporate
> Precision Mapping 4.0, WinAPRS 2.4.6 does not support the older PM. If you
> use PM, please do not download 2.4.6, a new version will be posted
> tomorrow.

>

> Thanks

>

> Mark Sproul

>

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50. [aprssid] tiny trak and palm pilot?

From: "JSN" <kc8ffv@k8sn.org>
Date: Thu, 1 Jun 2000 15:01:41 -0400
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Message-ID: <LYR842-87990-2000.06.01-23.21.28--lyris.aprssid#tapr.org@lists.tapr.org>
Rendered body type: text/plain

As a neat thought has anyone thought of interfaceing the tiny track with a palm pilot so the settings could be changed on the fly?

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To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org

51. [aprssid] Re: Position rate

From: David VanHorn <dvanhorn@cedar.net>
Date: Thu, 01 Jun 2000 23:05:14 -0700
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Message-ID: <LYR842-87992-2000.06.01-23.22.35--lyris.aprssid#tapr.org@lists.tapr.org>
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

At 11:34 PM 6/1/00 -0400, Bobbbe@aol.com wrote:
> In a message dated 6/1/00 1:36:00 PM EST, dvanhorn@cedar.net writes:
>
><< If you have a KPC-3, you can do a dual rate tracker, 15 mins fixed, and
> 120S
> mobile?
> Just depends on how fast you're going and the areas.
> >>
> WHAT!! Isn't that a bit excessive?

> Just depends on how fast you're going and the areas.<

- - -

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Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----
Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBOTdOmoF1GDz116VWEQKMHgCdFDBm60+vhAAHjC1MfTp/vIfwc3kAnA+7
Is898BhK0ls0i1BPUN+bRhXn
=jYUs
-----END PGP SIGNATURE-----

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To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org

52. [aprssid] Re: GPS and radios/cell phones

From: "David J. Hoffman" <ke4fgw@vol.com>
Date: Fri, 02 Jun 2000 00:20:37 -0400
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Message-ID: <LYR842-87993-2000.06.01-23.23.50--lyris.aprssid#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I was quite surprised by the performance of my Magellan GPS4000XL on my passenger seat. It stayed locked and continued working even though it was on the seat. So today I tried the cup holder which is located dead center of the car roof down beside the seats. I was amazed at the fact the GPS still stayed locked from there.

But I do agree with you, if I carried my GPS like I do my HT, I can't imagine it every getting a fix.

Mark D. Conner wrote:

> Hi SIGgers,

```

>
> How possible is it to have a GPS receiver sensitive enough to get a decent
> position, when we typically keep our rigs/phones in places that are usually
> well-shielded from GPS signals?
>
> For example, if I put my Garmin 12XL on the passenger seat next to me, it
> can take forever and a day to get a position lock. On the dash where it has
> a much better view of the sky, it will lock in within 30-60 sec. Can we
> expect a dinky patch antenna on a cell phone to give a decent position when
> we have the phone in our pants or shirt pocket inside a car?
>
> I'm just thinking that if I carried my Garmin the same way I carry my cell
> phone, a lot of times it won't have a very good position lock.
>
> I thought I read that the positioning for cell phone users would be done by
> triangulation among receive sites rather than any sort of GPS technology
> (other than using GPS as a time hack for the receive sites).
>
> 73 de Mark N9XTN
> -----
> Mark D. Conner
> E-mail: mconner@null.net n9xtn@arrl.net
> Homepage: http://members.home.net/mconner1
> "Arrogance and stupidity, all in the same package....how efficient
> of you!" - Ambassador Londo Mollari, Babylon 5
>
> ---
> You are currently subscribed to aprssig as: ke4fgw@vol.com
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

--
David J. Hoffman - KE4FGW

```

```

---
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```

53. [aprssig] Re: GPS and radios/cell phones

```

From: David VanHorn <dvanhorn@cedar.net>
Date: Thu, 01 Jun 2000 23:07:17 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-87995-2000.06.01-23.24.44--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

At 10:56 PM 6/1/00 -0500, Mark D. Conner wrote:
>Hi SIGgers,
>
>How possible is it to have a GPS receiver sensitive enough to get a decent
>position, when we typically keep our rigs/phones in places that are usually
>well-shielded from GPS signals?

I suspect that the GPS-in-phone projects are suffering from a lack of
forethought.

Either that, or we are going to be treated to an almost magical new antenna
technology.

:)

- --
Are you an ISP? Tired of spam?
www.spamwhack.com A pre-emptive strike against spam!

Where's Dave? http://www.findu.com/cgi-bin/find.cgi?kc6ete-9

-----BEGIN PGP SIGNATURE-----
Version: PGPfreeware 6.5.2 for non-commercial use <http://www.pgp.com>

iQA/AwUBOTdPFYf1GdZ116VWEQKnbgCfadIaWSBozC/o0B5QA9l0+/00QgMAoMzh
jTVf0rBKbOrgkiUXOzzwmtfE
=UW96
-----END PGP SIGNATURE-----

```

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

54. [aprssig] Re: GPS and radios/cell phones

From: Gerry Creager N5JXS <gerry@cs.tamu.edu>
Date: Thu, 01 Jun 2000 23:32:38 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Message-ID: <LYR842-88003-2000.06.01-23.36.06--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

"Mark D. Conner" wrote:

>

...

> I thought I read that the positioning for cell phone users would be done by
> triangulation among receive sites rather than any sort of GPS technology
> (other than using GPS as a time hack for the receive sites).

There are several schools of thought. One says, get a GPS fix and send it. (generally, pre-SA-discontinuation, that wasn't good enough.) 2, Get a set of observables and send those... much faster... and differentially correct at the processing base station. Probably works fine. 3. Triangulation or trilateration of the phone signal using multiple cell sites. Probably works OK, the theory's sound, and practical experiments I've heard of worked (the real world ain't experimental...), but it requires that all cell sites surrounding a phone ion trouble have a common channel free to talk to that phone at the same time.

Gerry

--

Gerry Creager gerry@cs.tamu.edu, gerry@page4.cs.tamu.edu
Network Engineering |Geodesy
Computer Science Department |Satellite Geodesy and Control
Texas A&M University |
979.458.4020

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

55. [aprssig] Re: GPS and radios/cell phones <LYR16616-88003-2000.06.01-23.36.06--jhosch6135#VAX2.WINONA.MSUS.EDU@lists.tapr.org>

From: Jeffrey Hosch <jhosch6135@VAX2.WINONA.MSUS.EDU>
Date: Thu, 01 Jun 2000 23:39:10 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88005-2000.06.01-23.47.03--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have put my eTrex in my pants pocket after it acquired a GPS fix and it did keep the GPS fix, but the accuracy was about 140 ft.

Jeffrey

> "Mark D. Conner" wrote:

>>

>

>> I thought I read that the positioning for cell phone users would be done by
>> triangulation among receive sites rather than any sort of GPS technology
>> (other than using GPS as a time hack for the receive sites).

>

> There are several schools of thought. One says, get a GPS fix and send
> it. (generally, pre-SA-discontinuation, that wasn't good enough.) 2,
> Get a set of observables and send those... much faster... and
> differentially correct at the processing base station. Probably works
> fine. 3. Triangulation or trilateration of the phone signal using
> multiple cell sites. Probably works OK, the theory's sound, and
> practical experiments I've heard of worked (the real world ain't
> experimental...), but it requires that all cell sites surrounding a phone
> ion trouble have a common channel free to talk to that phone at the same
> time.

>

> Gerry

> --

> Gerry Creager gerry@cs.tamu.edu, gerry@page4.cs.tamu.edu
> Network Engineering |Geodesy
> Computer Science Department |Satellite Geodesy and Control

> Texas A&M University |
> 979.458.4020
>
> ---
> You are currently subscribed to aprssig as: jhosch6135@VAX2.WINONA.MSUS.EDU
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
>

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

56. [aprssig] SV6 GPS Info Needed on RS 232 (Max chip connection)

From: Phillip Conza <phil@zl2tze.mlb.planet.gen.nz>
Date: Fri, 2 Jun 2000 19:05:05 +1200
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88036-2000.06.02-03.05.54--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi,

I did see a message about a week ago that these Units require the addition of an RS232 converter (Max chip 232).

Would some one out there please post the details on what is required and a diagram.

Hopefully we are looking at purchasing a few of these and any info would be appreciated..

73 Phillip ZL2TZE

--
Phillip Conza
Sysop ZL2TZE BBS Blenheim Marlborough NZ
4 Port APRS Station RE68XL

AX25 ZL2TZE @ ZL2TZE.#73.MLB.NZL.OC
E-Mail private phil@zl2tze.mlb.planet.gen.nz
Packet Mail Forwarding pmail@zl2tze.mlb.planet.gen.nz

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

57. [aprssig] Re: question on DB 25->9 pin

From: "Mike Yetko" <myetsko@insydesw.com>
Date: Fri, 2 Jun 2000 06:27:10 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88043-2000.06.02-05.32.10--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

BY DEFINITION there should be ONLY ONE POSSIBLE 'configuration' for a DB-25 to DB-9 adapter. However, this is only the signal lines. The fact that there are 2 grounds in a DB-25 and one in a DB-9 does leave an opening.

And there are signals on the DB-25 side that just aren't on the DB-9. What do you do with those?

Here's what "I" do.

Mike

=====

RS-232 compatibility pin numbers for DTE:

DB-9		DB-25
3	- TxDat (O)	- 2
2	- RxDat (I)	- 3
7	- RTS (O)	- 4
8	- CTS (I)	- 5
6	- DSR (I)	- 6
1	- CD (I)	- 8
4	- DTR (O)	- 20
9	- RI (I)	- 22
5	- Gnd	- 7

```

DB-25 Null Modem adapter:
2 -> 3      TxDat->RxDat
3 <- 2      TxDat->RxDat
4->5      4->5      RTS->CTS on each side, isolated
6,20 -> 8      DTR->same side DSR->other side CD
8 <- 6,20      DTR->same side DSR->other side CD
7 -- 7      Ground - Ground

```

```

DB-9 Null Modem adapter:
3 -> 2      TxDat->RxDat
2 <- 3      TxDat->RxDat
7->8      7->8      RTS->CTS on each side, isolated
4,6 -> 1      DTR->same side DSR->other side CD
1 <- 4,6      DTR->same side DSR->other side CD
5 -- 5      Ground - Ground

```

Some "null modem" adapters take each 4 across to the opposing 5 for RTS->CTS. Others just tie 6-8-20 on each connector. The above has the advantage of only relying on the CD to actually go across the cable, and if the other end activates DTR (as it would for a modem) then the connection goes 'live'.

It also usually doesn't hurt to tie 15-17-24 together on each DB-25 connector, just in case that end is configured for BiSync operation. That will insure that there are Tx and Rx clocks available with most Z-80 family SIO chips or Intel 8251s.

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
 To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

58. [aprssig] Re: DIGI XX ID's

From: Hamish Moffatt <hamish@cloud.net.au>
 Date: Fri, 2 Jun 2000 20:42:44 +1000
 To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
 Message-ID: <LYR842-88046-2000.06.02-05.46.08--lyris.aprssig#tapr.org@lists.tapr.org>
 Rendered body type: text/plain

On Thu, Jun 01, 2000 at 08:43:13PM -0400, Bob Bruninga wrote:
 > not eliminate multi-path duplication. WIDEn-N eliminates all dupes *and*
 > is much shorter effectively quadrupling channel capacity.

How so? If you're in range of multiple WIDEn-N repeaters, why won't they all repeat you?

> 1) The packets are much shorter. 50% shorter packets DOUBLES
 > channel capacity

A simplification, but close enough. There are constants involved (txdelay and txtail) which are independent of the actual payload length.

> after having traversed the digis A1, B2, C3, D4 and E5.
 > The digi A1 is still WB4APR-11, but it just includes its ## in its beacon
 > so that anyone needing to do a trace, has all the info he needs.

I understand the proposal, I just don't like it. I don't think yet another allocated ID is a good idea. Encode the callsign instead in some way perhaps. Assuming 6 letters maximum for a callsign gives 36^6 combinations, which can be encoded in 32 bits; add another 4 bits for the SSID to give 5 characters in all. That's a lot better than the 9 characters of WB4APR-10 for example, and uses your existing FCC-allocated ID.

Hamish
 --
 Hamish Moffatt VK3SB <hamish@debian.org> <hamish@cloud.net.au>

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
 To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

59. [aprssig] Re: Problem Found?

From: "Joel B. Black" <jbblack@mindspring.com>
 Date: Fri, 2 Jun 2000 05:44:43 -0500
 To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
 Message-ID: <LYR842-88048-2000.06.02-05.48.10--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

Thanks. I've changed my UNPROTO in that file and now I'm waiting on a pass.

73,
Joel, K2SAT

----- Original Message -----

From: Dick Stanich <dstanic@c2i2.com>
To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Sent: Thursday, June 01, 2000 10:40 PM
Subject: [aprssig] Re: Problem Found?

> Create a file called InitVHF.TNC that goes in the same directory as
Winaprs.exe. You can set any TNC commands you want in that file. As many as
you like.
>
> Example:
>
> UNPROTO APRS VIA OUTERSPACE
> CD SOFTWARE
> PID OFF
> HID OFF
> BTEXT Help me!
> BEACON EVERY 59
>
> This is the last file winaprs reads when you re-init your TNC. Make it as
large as you like. One tnc command per line.
>
> Dick, KB7ZVA
>
>
>
> ---
> You are currently subscribed to aprssig as: jbbblack@mindspring.com
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
>

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

60. [aprssig] Re: GPS and radios/cell phones

From: Paul Jacques <PaulJ@minimed.com>
Date: Fri, 2 Jun 2000 05:33:38 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88058-2000.06.02-07.37.11--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I don't think most of us use our cell phones while they are in our
pockets. By the time you remove it, turn it on, dial your number and
connect, it should be locked on.

Paul
WB6IWT

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

61. [aprssig] Link to battery source for Citadel computers

From: "BobD" <BobD@virtualconst.com>
Date: Fri, 2 Jun 2000 09:08:16 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88062-2000.06.02-08.10.16--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Here's a link to the page on their site that has the info for the FB2325
battery.
For some reason the link Scott provided did not work for me.

73...Bob, N2IPH

http://www.resource800.com/ibmdesk.html#Encapsulated_Batteries

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

62. [aprssig] Re: DIGI XX ID's

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 2 Jun 2000 09:08:42 -0400 (EDT)
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Message-ID: <LYR842-88063-2000.06.02-08.11.53--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On Fri, 2 Jun 2000, Hamish Moffatt wrote:

> On Thu, Jun 01, 2000 at 08:43:13PM -0400, Bob Bruninga wrote:
> > not eliminate multi-path duplication. WIDEn-N eliminates all dupes *and*
> > is much shorter effectively quadrupling channel capacity.
>
> How so? If you're in range of multiple WIDEn-N repeaters, why won't they
> all repeat you?

They will once (sorry, I forgot about that), but all of those initial dupes DIE. WIDEn-N eliminates dupes by "content" CRC comparison. Whereas in callsign subs, all those initial ones and all possible alternate paths are not eliminated.

> > 1) The packets are much shorter. 50% shorter packets DOUBLES
> > channel capacity
>
> A simplification, but close enough. There are constants involved
> (txdelay and txtail) which are independent of the actual payload length.

Yes, but we want DIGIs to BUNDLE. That will also further improve channel efficiency by another 30 % or more...

> > after having traversed the digis A1, B2, C3, D4 and E5.
> > The digi A1 is still WB4APR-11, but it just includes its ## in its beacon
> > so that anyone needing to do a trace, has all the info he needs.
>
> I understand the proposal, I just don't like it. I don't think yet another
> allocated ID is a good idea. Encode the callsign instead in some way
> perhaps. Assuming 6 letters maximum for a callsign gives 36^6 combinations,
> which can be encoded in 32 bits; add another 4 bits for the SSID
> to give 5 characters in all. That's a lot better than the 9 characters
> of WB4APR-10 for example, and uses your existing FCC-allocated ID.

You forget that every DIGI field takes 7 bytes whether it contains only a 2 byte ID or a 9 character call. This is also wasteful. My idea is to combine multiple such hop-history (up to 3 each) into those 7 bytes.

bob

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63. [aprssig] Re: GPS and radios/cell phones

From: "Lumpy" <lumpy@digitalcartography.com>
Date: Fri, 2 Jun 2000 08:24:06 -0600
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88069-2000.06.02-09.21.40--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Jeffrey Hosch wrote:

> I have put my eTrex in my pants pocket after it
> acquired a GPS fix and it did keep the GPS fix,
> but the accuracy was about 140 ft...

Pretty big pants, Jeff...;-)

Lumpy

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

64. [aprssig] Re: WinAPRS 2.4.6 released

From: "Ben Miller" <benm@uniplex.com>
Date: Fri, 2 Jun 2000 09:39:27 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88076-2000.06.02-09.42.33--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

All,

I put 2.4.6 up as soon as the mail came out yesterday. I'm running VHF (MFJ TNC2) and Igating. Been running just under 24 hours. I still have the internet feed coming in but have two popups as follows:

Unhandled exception: c0000005
At address: 004d00b2

and

Unhandled exception: c0000005
At address: 0048a021

Just clicked on them and winaprs shutdown.

FYI

Ben Miller

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

65. [aprssig] Re: WinAPRS 2.4.6 released

From: Richard Parry <rparry@qualcomm.com>
Date: Fri, 02 Jun 2000 07:41:12 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88077-2000.06.02-09.44.21--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I still have PM 3.0, do you think I need to upgrade to 3.5 or 4.0 in order to use WinAPRS 2.4.6?

At 07:27 PM 6/1/2000 +0000, Dick Stanich wrote:
>On 06/01/00, "Mark Sproul <kb2ici@amsat.org>" wrote:
>> More info on PM and 2.4.6
>>
>> If you have 4.0 installed and you have 3.x installed, then it will not
>> work. If you ONLY have 3.x installed on your machine, then 2.4.6 should
>> work just fine.
>>
>
>3.5 also works great. Also, I am seeing almost 2 lines of info. coming in
>on the data stream window on the msg. screen. Now if that window was opened
>to 2 lines... It would display better.
>
>Tested the WX warning data to VHF local. Counties and zones display and
>work correctly. They even expire! That will make Dale happy, along with the
>rest of us.
>
>Dick, KB7ZVA
>Yuma Digipeater - Wormhole
>
>---
>You are currently subscribed to aprssig as: RPARRY@QUALCOMM.COM
>To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

Rich Parry, W9IF

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

66. [aprssig] 2.46 still bad

From: "Alex Pinheiro Machado Rodrigues" <alexmac@tba.com.br>
Date: Fri, 2 Jun 2000 12:45:38 -0300
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Message-ID: <LYR842-88087-2000.06.02-10.48.02--lyris.aprssid@lists.tapir.org>
Rendered body type: text/plain

My station and igate with Winaprs 2.46 still bad, displaying "UNHANDLED EXCEPTION" I have to restart winaprs 2 or 3 times a day.
Anybody can help? Does some exist solution or will we have to wait for the new version?

Thanks again

Alex, PT2VHF
BRAZIL

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To unsubscribe send a blank email to leave-aprssid-842K@lists.tapir.org

67. [aprssid] Fwd: 2.46 still bad

From: na4v@hom.net
Date: Fri, 02 Jun 2000 11:50:26 %z (EDT)
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapir.org>
Message-ID: <LYR842-88090-2000.06.02-10.53.36--lyris.aprssid@lists.tapir.org>
Rendered body type: text/plain

I'm getting the same error....
Mark, NA4V

From: "Alex Pinheiro Machado Rodrigues" <alexmac@tba.com.br>
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapir.org>
Date: Fri, 2 Jun 2000 12:45:38 -0300
Subject: [aprssid] 2.46 still bad

My station and igate with Winaprs 2.46 still bad, displaying "UNHANDLED EXCEPTION" I have to restart winaprs 2 or 3 times a day.
Anybody can help? Does some exist solution or will we have to wait for the new version?

Thanks again

Alex, PT2VHF
BRAZIL

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To unsubscribe send a blank email to leave-aprssid-842K@lists.tapir.org

You are currently subscribed to aprssid as: lyris.aprssid@tapir.org
To unsubscribe send a blank email to leave-aprssid-842K@lists.tapir.org

68. [aprssid] Linux UI-Digipeater

From: John Gorkos <jgorkos@CellNet.com>
Date: Fri, 02 Jun 2000 10:53:51 -0500
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapir.org>
Message-ID: <LYR842-88091-2000.06.02-10.56.47--lyris.aprssid@lists.tapir.org>
Rendered body type: text/plain

Here's the quandry that I face:

I run a Linux box with TNC/Radio, etc and the AX25 tools in a location that could badly benefit from a RELAY digipeater (at worst). I would like to provide two services:

- 1) RF<->Internet gateway. The aprsd package from Dale Heatherington and modified by VK3SB works great for this. It gives me all the cool TCP/IP connections, etc. It runs under the AX25 tools, and I'm quite happy with it.

- 2) Advanced DIGI functions. I'd like to provide RELAY and TRACE digi

functions, also. Since I want to run the TNC in KISS mode and let Linux take care of the AX25 issues, I tried Alan Crosswell (N2YKG)'s aprsdigi package. It also works like a champ, BUT, it requires Alan's custom hacks to the kernel and AX25 libraries, making it incompatible with all the other AX25 stuff out there for Linux. So it looks like I can't have my cake and eat it, too.

The question for the group is: is there a Linux/AX.25 package that allows me to do advanced DIGI functions, RF<->Internet gatewaying, AND allows me to use other AX25 ports for additional functions?

Thanks for the help.

John Gorkos
KB5HHR

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

69. [aprssig] Re: tiny trak and palm pilot?

From: Mike Musick <mcmusick@anet-stl.com>
Date: Fri, 2 Jun 2000 10:57:10 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88093-2000.06.02-10.58.41--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Jeff notes:

>As a neat thought has anyone thought of interfaceing the tiny track with a
>palm pilot so the settings could be changed on the fly?

Already in the works.

It's intended more to duplicate Byon's Windows up/download program for use as a portable field programmer, but there certainly isn't anything to keep one from leaving the Palm attached and changing the parameters as needed.

...mike

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

70. [aprssig] Re: WinAPRS 2.4.6 released

From: David VanHorn <dvanhorn@cedar.net>
Date: Fri, 02 Jun 2000 10:55:52 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88095-2000.06.02-11.13.11--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

At 09:39 AM 6/2/00 -0500, Ben Miller wrote:
>All,
>
>I put 2.4.6 up as soon as the mail came out yesterday. I'm running VHF (MFJ
>TNC2) and Igating. Been running just under 24 hours. I still have the
>internet feed coming in but have two popups as follows:

I've had exactly two crashes as well..

- - -

Are you an ISP? Tired of spam?
www.spamwhack.com A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----
Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBOTf1KIF1GDz116VWEQJJkwCeKYC5XBH43Wa3/WF5HEEX16smzVAAniig
KDUiyCC5FDmWkhn1OH70bN+R
=Laa0
-----END PGP SIGNATURE-----

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

71. [aprssig] RE: 2.46 still bad

From: "Ben Miller" <benm@uniplex.com>
Date: Fri, 2 Jun 2000 11:10:29 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88096-2000.06.02-11.13.38--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

When I loaded 2.4.6 it ran all day yesterday without problems. Now when I restart it it craters as soon as I start it with the unhandled exception. Again I am running VHF and IGATE.

Ben Miller
KCSNFM

-----Original Message-----

From: bounce-aprssig-15665@lists.tapr.org
[mailto:bounce-aprssig-15665@lists.tapr.org]On Behalf Of
alexmac@tba.com.br
Sent: Friday, June 02, 2000 10:46 AM
To: aprssig@lists.tapr.org
Subject: [aprssig] 2.46 still bad

My station and igate with Winaprs 2.46 still bad, displaying "UNHANDLED EXCEPTION" I have to restart winaprs 2 or 3 times a day. Anybody can help? Does some exist solution or will we have to wait for the new version?

Thanks again

Alex, PT2VHF
BRAZIL

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

72. [aprssig] RE: 2.46 still bad - more info

From: "Ben Miller" <benm@uniplex.com>
Date: Fri, 2 Jun 2000 11:20:38 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88100-2000.06.02-11.23.46--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I've just tested this with 2.4.4 and even 2.4.3 and it is crashing almost immediately after I connect to the internet feed. My guess is there is something coming across the feed that is very displeasing to WinAPRS.

Ben Miller
KCSNFM

-----Original Message-----

From: bounce-aprssig-15665@lists.tapr.org
[mailto:bounce-aprssig-15665@lists.tapr.org]On Behalf Of
alexmac@tba.com.br
Sent: Friday, June 02, 2000 10:46 AM
To: aprssig@lists.tapr.org
Subject: [aprssig] 2.46 still bad

My station and igate with Winaprs 2.46 still bad, displaying "UNHANDLED EXCEPTION" I have to restart winaprs 2 or 3 times a day. Anybody can help? Does some exist solution or will we have to wait for the new version?

Thanks again

Alex, PT2VHF
BRAZIL

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

73. [aprssig] RE: 2.46 still bad

From: Ray Vaughan <ray@rayvaughan.com>
Date: Fri, 02 Jun 2000 12:29:07 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88102-2000.06.02-11.32.01--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

At 11:10 AM 6/2/00 -0500, you wrote:
>When I loaded 2.4.6 it ran all day yesterday without problems. Now when I
>restart it it craters as soon as I start it with the unhandled exception.
>Again I am running VHF and IGATE.

Same results here on NT40 on a Pentium 100. It seems like it's something coming in from the server.
Odd thing is, when I get the unhandled exception popup, the program seems to keep running. Only when I
click OK do I get the Dr. Watson and WinAPRS goes away.

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74. [aprssig] Re: 2.46 still bad

From: Guy Story <kc5goi@tapr.org>
Date: Fri, 2 Jun 2000 11:34:18 -0500 (CDT)
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Message-ID: <LYR842-88103-2000.06.02-11.37.08--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Alex, if you are using WinAPRS to provide IGATE services mainly then leave it alone even if the errors come up. While you can not access the displays, which does make it useless if you need to be tracking at that point in time, WinAPRS does not stop IGATing or repoding to pings. I do see the same errors everyone else is getting on their IGATEs but I do not hit ok unless I want to see someone.

73,

Guy Story
KC5G0I
kc5goi@tapr.org
<http://www.kc5goi.net>

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

75. [aprssig] Re: WinAPRS 2.4.6 released

From: "Jim Gill" <gillj@uswest.net>
Date: Fri, 2 Jun 2000 11:40:13 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88105-2000.06.02-11.43.20--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> >I put 2.4.6 up as soon as the mail came out yesterday. I'm running VHF
(MFJ
> >TNC2) and Igating. Been running just under 24 hours. I still have the

> >internet feed coming in but have two popups as follows:
> I've had exactly two crashes as well..

How about using AFilter between the APRServe feed and WinAPRS? If you want to still get posits from all stations, you could set the distance filter very high, but at least you'd get the error checking and filtering that AFilter offers. Maybe that will cut down the crashes. I haven't had any with this set-up.

I can't find the URL I got AFilter from... it's not in the readme.
Bill,(Diaz), could you post a link?

Jim NØRMO

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
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76. [aprssig] Bad data crashing WinAPRS

From: twallace@ccgov.org
Date: Fri, 2 Jun 2000 12:49:20 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88107-2000.06.02-11.49.03--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

We need to find out the SOURCE of the bad data causing the UNHANDLE EXCEPTIONS.
until we do that, there is no way of filtering, of correcting the problem.
I know it comes off of TCIP, I do not get it over the RF side

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
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77. [aprssig] RE: 2.46 still bad

From: Alex <kg4ecv@amsat.org>
Date: Fri, 02 Jun 2000 13:03:28 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88110-2000.06.02-11.57.56--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Same happens here on NT4/P600/128 using WinAPRS 2.4.5 and internet feed only. It also doesn't matter which server I connect to, WinAPRS crashes within 2 minutes. 'twas working fine yesterday.

73s,
de Alex

Ray Vaughan wrote:

>
> At 11:10 AM 6/2/00 -0500, you wrote:
> >When I loaded 2.4.6 it ran all day yesterday without problems. Now when I
> >restart it it craters as soon as I start it with the unhandled exception.
> >Again I am running VHF and IGATE.
>
> Same results here on NT40 on a Pentium 100. It seems like it's something coming in from the server.
Odd thing is, when I get the unhandled exception popup, the program seems to keep running. Only when I click OK do I get the Dr. Watson and WinAPRS goes away.
>
> ---
> You are currently subscribed to aprssig as: kg4ecv@amsat.org
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

78. [aprssig] Re: Bad data crashing WinAPRS

From: David VanHorn <dvanhorn@cedar.net>
Date: Fri, 02 Jun 2000 11:41:16 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88112-2000.06.02-11.58.38--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

At 12:49 PM 6/2/00 -0400, twallace@ccgov.org wrote:

>We need to find out the SOURCE of the bad data causing the UNHANDLE
>EXCEPTIONS.

>until we do that, there is no way of filtering, of correcting the problem.
>I know it comes off of TCIP, I do not get it over the RF side

I disagree. While it would be nice to eliminate the bad data, WAPRS needs to be rejecting improperly formed packets. Dropping them on the floor is fine, crashing is not.

We have to realize that whatever the source, there will always be malformed packets, and be ready to live with it. My personal experience in this is banking terminals, we had to be very careful in packet parsing to always parse from the same end of the packet, and to handle all possible cases. Otherwise a few k\$ in transactions disappear when a terminal loses it's mind. Merchants don't like that much.

- - -

Are you an ISP? Tired of spam?

www.spamwhack.com A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----

Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBOTf/zIFlGDz1l6VWEQLcZwCfTJndGhADrS/xF7PK2B42R59MgDMAoMPr
y42gDRsoKjHbh1o3aAod05+b
=c46I

-----END PGP SIGNATURE-----

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79. [aprssig] Re: WinAPRS 2.4.6 released

From: "Mac" <w8xf@citynet.net>

Date: Fri, 2 Jun 2000 12:59:53 -0400

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Message-ID: <LYR842-88113-2000.06.02-12.03.45--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

FYI:

I am running IGATE on NT 4.0 with 500MHz P3 256 Mb RAM 28k8 ISP connection
***AND Afilter 1.13 *** set to limit to 500 miles (abt 900 stations) and I
get the same unhandled exception errors. \Have had to restart WinAPRS 246
four times since it was released... \ I know it still runs until you hit OK,
but I can't stand to leave it alone. I use this station all day at work :-)
to check personal email and run the IGATE.

Afilter url <ftp://ftp.billdiaz.dynip.com/outgoing/>

73,
Mac W8XF

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80. [aprssig] Where to get AGWPE

From: Ralph Milnes <milnes@openix.com>

Date: Fri, 02 Jun 2000 13:04:27 -0400

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Message-ID: <LYR842-88115-2000.06.02-12.07.34--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

The latest URL for George's (SV2AGW) AGWPE web site doesn't seem to be working:

<http://www.raag.org>

Maybe it's a temporary problem. Or has someone heard of a new location for
the page -- or another source for the latest version of AGWPE?

Thanks.

Ralph, KC2RLM

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81. [aprssig] Re: tiny trak and palm pilot?

From: Eric Petersen <ericp@firedragon.com>
Date: Fri, 2 Jun 2000 11:23:53 -0600 (MDT)
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Message-ID: <LYR842-88116-2000.06.02-12.11.10--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I thought it would be nice to be able to program it from a WIN/CE box.
(Since I dont' have a pilot, or that'd be nice to).

Is there a listing of the proto out there, mabie you could do it with just
a term emulator, kinda like a TNC.

Eric Petersen
kb7tnn

Kier Dran

(Tureva Illuve)

DC.D f++ s++ h+++ CSR ad++++ ah \$ m d+++ WL++* Fr^^^ L16mt5 BF e++ g- i U

On Thu, 1 Jun 2000, JSN wrote:

> As a neat thought has anyone thought of interfacing the tiny track with a
> palm pilot so the settings could be changed on the fly?
>
>
> ---
> You are currently subscribed to aprssig as: ericp@firedragon.com
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
>

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
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82. [aprssig] Re: Bad data crashing WinAPRS

From: Bill Diaz <billdiaz@megsinet.net>
Date: Fri, 2 Jun 2000 12:11:09 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88118-2000.06.02-12.14.57--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Dave,

Bad packets should be eliminated at the source if at all possible. Packets
that are not APRS compliant should not be placed on the Internet feed IMO. I
also agree that each application should be fault tolerant. However, this may
be difficult to achieve in practice.

Non-Compliant packets seem to come primarily from improperly setup TNC's, and
trackers, or digis that munge the packet.

We need to have every digi owner check TNC setups. I am still seeing some
digis sending timestamps in the header. This is not difficult to eliminate.

Many errors observed today have one of the following in the header <UI>, <UI,
<UI R>.

Eliminating munged packets created by Digis, and bad trackers may be more
difficult.

If some brave sole wants to play "Packet Police" and politely inform the digi
or tracker owner of possible problems with thier station, go for it. We will
all benefit in the end.

Bill KC9XG

On Friday, June 02, 2000 1:41 PM, David VanHorn [SMTP:dvanhorn@cedar.net] wrote:

```
> -----BEGIN PGP SIGNED MESSAGE-----
> Hash: SHA1
>
> At 12:49 PM 6/2/00 -0400, twallace@ccgov.org wrote:
> >We need to find out the SOURCE of the bad data causing the UNHANDLE
> >EXCEPTIONS.
> >until we do that, there is no way of filtering, of correcting the problem.
> >I know it comes off of TCIP, I do not get it over the RF side
>
> I disagree. While it would be nice to eliminate the bad data, WAPRS needs
> to be rejecting improperly formed packets. Dropping them on the floor is
> fine, crashing is not.
>
> We have to realize that whatever the source, there will always be malformed
> packets, and be ready to live with it. My personal experience in this is
> banking terminals, we had to be very careful in packet parsing to always
> parse from the same end of the packet, and to handle all possible cases.
> Otherwise a few k$ in transactions dissappear when a terminal looses it's
> mind. Merchants don't like that much.
>
> - -
> Are you an ISP? Tired of spam?
> www.spamwhack.com A pre-emptive strike against spam!
>
> Where's Dave? http://www.findu.com/cgi-bin/find.cgi?kc6ete-9
>
> -----BEGIN PGP SIGNATURE-----
> Version: PGPfreeware 6.5.2 for non-commercial use <http://www.pgp.com>
>
> iQA/AwUBOTf/zIFlGDz1l6VWEQLcZwCfTJndGhADrS/xF7PK2B42R59MgDMAoMpr
> y42gDRsoKjHbh1o3aAod05+b
> =c46I
> -----END PGP SIGNATURE-----
>
>
> ---
> You are currently subscribed to aprssig as: BILLDIAZ@MEGSINET.NET
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
```

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83. [aprssig] Re: Bad data crashing WinAPRS

From: Tim Salo <salo@networkcs.com>
Date: Fri, 2 Jun 2000 12:11:59 -0500 (CDT)
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88119-2000.06.02-12.15.09--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```
> Subject: [aprssig] Bad data crashing WinAPRS
> From: twallace@ccgov.org
> Date: Fri, 2 Jun 2000 12:49:20 -0400
>
> We need to find out the SOURCE of the bad data causing the UNHANDLE
> EXCEPTIONS. ...
```

In most other environments, it is the responsibility of the receiver (WinAPRS in this case) to respond gracefully to any packet that is received, no matter how ill-formed.

In my opinion, any system that is touted for use in emergencies (as APRS often is) ought not be susceptible to relatively trivial denial-of-service attacks, such as intentionally sending malformed packets.

-tjs

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84. [aprssig] ui-view as Igate

From: "Alex Pinheiro Machado Rodrigues" <alexmac@tba.com.br>
Date: Fri, 2 Jun 2000 14:11:13 -0300

To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Message-ID: <LYR842-88120-2000.06.02-12.15.31--lyris.aprssid#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi sig.
I'm looking for the instructions to start a Igate using ui-view, replacing
Winaprs.
Any sugestions?

73!

Alex, PT2VHF
BRAZIL

You are currently subscribed to aprssid as: lyris.aprssid@tapr.org
To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org

85. [aprssid] RE: 2.46 still bad

From: Bill Diaz <billdiaz@megsinet.net>
Date: Fri, 2 Jun 2000 12:15:30 -0500
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Message-ID: <LYR842-88123-2000.06.02-12.19.48--lyris.aprssid#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Ben,

I agree that something on the internet feed may be causing the reported
crashes.
The following is a heavily edited listing of errors reported by AFilter
recently.

Header error WX4G50-2>APW228,WA4BWB-3*,WIDE6-3 <UI>:>041508 WX4G50 WX
MONITORING NETWORK CENTRAL NC
Header error KE4RCO>APRX44,WA4BWB-3*,WIDE3 <UI>:=3525.00N/08108.00W-000/000/
Kevin in Iron Station, NC
Header error W4RDU-5>APRS,WA4BWB-3*,WIDE
<UI>:=3546.76NT07840.50W#PHG6460/W-R-Trace Digi in Raleigh,NC
Header error KC7ZR-3>WIDE2-1
<UI>,GPSLK,KC7ZR-2*:\$GPRMC,154255.47,A,4118.5356,N,10535.3487,W,00.0,000.0,0
20600,11.,E*7C
Header error KQ4MS-3>APRS,WA4BWB-3*,WIDE6-4
<UI>:=3549.23NN07818.47W#PHG6460/W-R-T-N Digi in Zebulon, NC
Header error KE4IAM>APW228,WA4BWB-3*,WIDE6-3 <UI>:>172221 EC Guilford County NC
ARES gcares@usa.net
Header error KD4ZB-3>APRS,WIDE,WA4BWB-3*,WIDE3
<UI>:13712.28NN07821.46W#PHG4623/ W-R-T-VA digi Farmville, VA.
Header error KA4U>APZ031,WA4BWB-3*,WIDE6 <UI>:=3532. N/08106. WxXASTIR-Linux
de John ka4u@vnet.net
Header error
[invalid]>APRSW,[invalid],WA2GUG-2,KB2EAR-1*:=4005.18N/07457.33WyPHG5330/Win
APRS 2.3.3 -PABUCBENSALEM-233-<530>
ProcessHeader error :
[invalid]>APRSW,[invalid],WA2GUG-2,KB2EAR-1*:=4005.18N/07457.33WyPHG5330/Win
APRS 2.3.3 -PABUCBENSALEM-233-<530>
Header error K3NXF-6>W6KRW-2* <UI>
R,APRS,RELAY,WA0RT0-10,W6KRW-1:!3304.25N/11634.75W_K3NXF=Rmt WX Station in
Julian, CA at 4,313ft
Header error N4WYK-2>APRS,WA4BWB-3*,WIDE3
<UI>:=3543.41NN08136.50W#PHG5730/W-R-Trace on High Peak Mtn. NC
Header error KC6VVT>WIDE4 <UI>,APRS,W6KRW-2*:>252322z APRS846 up
Header error KC4ZPL-3>APRS,WD4HDL-1,WA4BWB-3*,WIDE6-4
<UI>:13901.24NN07821.57W#PHG5160 W/R/T DIGI Strasburg,Va.
Header error KB9SZF-7>APK101,RELAY,WIDE5-5 [00/22/00 02:58:12]::KC6ETE-5 :back
in town{0
Header error KB9SZF-7>APK101,KC6ETE-5*,WIDE5-5 [00/22/00 02:58:13]::KC6ETE-5
:back in town{0
GPGBA ChkSum error WA7LFT-1
\$GPGBA,152743,4148.229,N,10714.267,W,1,07,1.2,2135.2,M,-18.8,M,,*
Header error W4DLO-12>GPSLU,WA4BWB-3*,WIDE2
<UI>:\$GPGBA,155145,3801.203,N,07908.950,W,1,07,1.5,510.2,M,-33.3,M,,*
GPGBA ChkSum error W4DLO-12
\$GPGBA,155145,3801.203,N,07908.950,W,1,07,1.5,510.2,M,-33.3,M,,*
Header error KD4PBS-2>APRS,WA4BWB-3*,WIDE3-1
<UI>:=3537.95N/07847.70WIPHG1220/IGate,JavaPRs page @ kd4pbs.dynip.c
Header error KJ7AZ-6>WIDE2
<UI>,APRS,KC7ZR-2*:!4144.86NN10749.82W#PHG6570/Continental Divide APRS Digi on
Solar Power
Header error K4ITV>APS199,WD4JJ-3,WIDE,WA4BWB-3* <UI>R:>301516z[199XW]APRS+SA

```

k4itv@aol.com
Header error KE4FCW>APM342,WA4BWB-3*,WIDE4-2
<UI>:=3608.70N/07950.70W_PHG6020/MacAPRS 3.4.2 -NCGUIGREENSBO-342-<
Header error KE4FCW>APM342,WA4BWB-3*,WIDE4-2
<UI>:_06021627c227s005g009t089r000p000h58b10199mU2K
Header error KJ7AZ-2>KC7ZR-2*
<UI,APW246,KJ7AZ-5:=4147.25N/10714.56WIPHG2150/WinAPRS 2.4.3 -WYCARRAWLINS
-246-<530>
Header error W7MOT-4>TRACE5-1
<UI,BEACON,KJ7KY-15,W6SCE-11,W6KRW-1,W6KRW-2*:>White Tanks Mountain VHF
Digipeater -- RELAY/WIDE/TRACE
GPRMC error WB4SYW-14 3618.9950
$GPRMC,134908,V,3618.9950,N,07833.5407,W,000.0,000.0,020600,008.9,W*63
Header error KC5NLO>N5IUT* <UI,APW240,ta,ARS:=2611.85N/09814.06WPHG7260/C-5
Header error KF4UCI-3>APRS,KD4ZB-3,WA4BWB-3*,TRACE4-2
<UI>:!3800.01NN07827.51W#PHG3638/A=1500/W-R Charlottesville
Header error KE4RCO>APRX44,WA4BWB-3*,WIDE3 <UI>:=3525.00N/08108.00W-000/000/
Kevin in Iron Station, NC
Header error KB4TWG-9>BEACON,WA4BWB-3*,WIDE3-2,TRACE
<UI>:!3546.14NN07955.42W_PHG7560 W-R-T DIGI WX4GS0 WX Centra
Header error KB4TWG-9>APRS,WA4BWB-3*,WIDE3-1
<UI>:!!00000008035E0034----03500255----0005031500000000
Header error N4WYK-9>APRS,N4AGN-2,WR4BEG,WA4BWB-3*,TRACE3
<UI>:=3534.04NN08105.29W#PHG6760/W-R-Trace Digi on Ande
Header error WB4WOR-9>APW240,W4GS0,WR4BEG,WA4BWB-3*
<UI>:=3556.31N/07958.73W8PHG7260/Channel 8 Weather Center and
Header error KC4ZPL-3>APRS,WD4HDL-1,KF4UCI-3,KD4ZB-3,WA4BWB-3*
<UI>:!3901.24NN07821.57W#PHG5160 W/R/T DIGI Strasb
Header error AA4L>APW245,WB4QOJ-5,WA4BWB-3*,WIDE <UI
C>:=3717.13N/08006.25W_PHG7130/WinAPRS2.4.5 -VAROASALEM -2
Header error WA4BWB-3>APRS,NM4V-3,WIDE,WIDE3-3
<UI>:!3732.57NN07912.33W#PHG4623/W-R-T-VA digi Lynchburg,VA.

Header error KD4JZZ>BEACON,WA4BWB-3*,WIDE3 <UI>:!3604.88N/08016.20W-APRS QRT
@291515z
Header error K4RRZ>APR837,W4NHV-9,WA4BWB-3*
<UI>:=3443.63N/07912.53W-000/000/varsie in pembroke,nc
Header error WB4IUY>APR810,WA4BWB-3*,WIDE6-1 <UI>:>172209z
wb4iuy@wb4iuy.#rtp.nc.usa.noam
Header error WD4JJ-3>APRS,WIDE,WA4BWB-3* <UI
R>:!3626.21NT08207.78W#PHG6870/A=004350/W-R Holston mtn in NE Tn
Header error WD4ACR>APW227,WR4BEG,WA4BWB-3*
<UI>:=3604.58N/07950.58W-PHG7138/MacAPRS 2.2.7 -NCGUIGSO -227-<5
Header error WB4QOJ-5>APRS,WIDE,WIDE,WA4BWB-3* <UI
R>:!3711.08N/08010.03W#PHG5860/WIDE 3960'POOR MTN
Header error WA4MJF>APRS,KQ4MS-3,WA4BWB-3*,WIDE3 <UI>:>292343z / EMail
wa4mjf@arrl.net
Header error AD4CR>APW245,GATE,WA4BWB-3* <UI>:>061002 Kentucky 30m>2m Gateway
10.151.00 Lsb>144.39Mhz
Header error UC5REB>WIDE5-K <UI,A R846,N5'UT*,WID/:=A855.84N/09833.1DWyPHG61_0/
Jim,8kc5reb@6ol.com
Header error KF4PSB>APW243,N4WYK-2,KE4CJA-4,N4AGN-2,WR4BEG,WA4BWB-3*,TRACE3
<UI>:=3558.50N/08130.30W-PHG2250/alle
Header error WB4SYW-5>APRB03,WA4BWB-3*
<UI>:=3618.55N/07834.98W#000/000/NCGRANOXFORD
Header error KE4UOD>APR846,W4NHV-9,WA4BWB-3* <UI R>:=3533. N/07839.
W-000/000/MIKE, IN JOHNSTON CO. NC
Loc error KC8HFX 3949 5 =3949N N/08432.66W-bob rphues@infinet.com
Header error W2MG-3>APR841,N4EVA-10,WA4BWB-3* <UI>:=3751. N/07731.
W#PHG9160/Martin, Doswell,VA w2mg@compuserve
GPRMC error KE4FGW-9 3508.2937
$GPRMC,015859,V,3508.2937,N,08514.1582,W,0.000,0.0,180895,2.6,W*6F
Header error N80VD>APW245,K4ROK,WA4BWB-3* <UI
R>:=3549.73N/07826.16WZPHG7160/WinAPRS 2.4.5 -NCWAKWENDELL -245-<53
Header error M5SMN>N5IUT*<<UI,AP5922,W5TQ:>321908z[0R22]APRSaSA StarMup 152043
Header error KT4DZ>APW244,WA4BWB-3*,WIDE3
<UI>:=3848.65N/07726.20W-PHG2100/kt4dz@arrl.net -VAFAICENTREVI-244-<630
GPRMC ChkSum error KA9MVA-6
$GPRMC,61917,,36092477N,0959.608,,0.00,0.0,020600,4.8,E*63
GPRMC ChkSum error KJ7AZ-1
$GPRMC,140819,A,4147.094,N,10715.706,W,000.0,331.8,020600,011.9,E*
10*,WIDE5-2 [00/22/00 03:03:35]:'r;Al K\]

```

The largest number of errors seem to be caused by improperly setup TNC's.
The next culprit appears to be trackers or digis that are inserting garbage characters in packets.

Not sure what is causing WinAprs to crash but it is likely one of the badly formatted packets is causing an exception, and WinAprs is not handling the

exception properly.

Bill KC9XG

On Friday, June 02, 2000 11:21 AM, Ben Miller [SMTP:benm@uniplex.com] wrote:
> I've just tested this with 2.4.4 and even 2.4.3 and it is crashing almost
> immediately after I connect to the internet feed. My guess is there is
> something coming across the feed that is very displeasing to WinAPRS.
>
> Ben Miller
> KC5NFU

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86. [aprssig] WinAprs crashes.

From: Bill Diaz <billdiaz@megsinet.net>
Date: Fri, 2 Jun 2000 12:19:46 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88125-2000.06.02-12.23.05--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Jim,

I will be posting a new version of AFilter shortly. Version 1.1.4 has increased error checking and reporting. My recent post lists some of header errors that I believe are causing WinAprs to crash. AFilter handles these exceptions, but in some cases may pass certain bad packets to the client application.

AFilter will be available at ftp://ftp.billdiaz.dynip.com/outgoing at about 13:00 CDT today. Need to clean up a few things before I post it.

Bill KC9XG

On Friday, June 02, 2000 11:40 AM, Jim Gill [SMTP:gillj@uswest.net] wrote:
> > >I put 2.4.6 up as soon as the mail came out yesterday. I'm running VHF
> (MFJ
> > >TNC2) and Igating. Been running just under 24 hours. I still have the
> > >internet feed coming in but have two popups as follows:
> > I've had exactly two crashes as well..
>
> How about using AFilter between the APRServe feed and WinAPRS? If you want
> to still get posits from all stations, you could set the distance filter
> very high, but at least you'd get the error checking and filtering that
> AFilter offers. Maybe that will cut down the crashes. I haven't had any
> with this set-up.
>
> I can't find the URL I got AFilter from... it's not in the readme.
> Bill,(Diaz), could you post a link?
>
> Jim NØRMO
>
>
>
>
> ---
> You are currently subscribed to aprssig as: BILLDIAZ@MEGSINET.NET
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

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87. [aprssig] Re: Bad data crashing WinAPRS

From: Bruno Quesnel <quesnelb@ve2.ele.etsmtl.ca>
Date: Fri, 02 Jun 2000 13:45:21 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88132-2000.06.02-12.46.19--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi to all,

After following this thread, it seems that the IGATES are the problem. Since many operate only on RF and no problem, and as soon as you connect to an IGATE, the problem happens.

Bill Diaz wrote:

```
> Dave,
> Bad packets should be eliminated at the source if at all possible. Packets
> that are not APRS compliant should not be placed on the Internet feed IMO. I
> also agree that each application should be fault tolerant. However, this may
> be difficult to achieve in practice.
>
> Non-Compliant packets seem to come primarily from improperly setup TNC's, and
> trackers, or digis that munge the packet.
>
> We need to have every digi owner check TNC setups. I am still seeing some
> digis sending timestamps in the header. This is not difficult to eliminate.
> Many errors observed today have one of the following in the header <UI>, <UI,
> <UI R>.
>
```

I agree. If the Digis can remove or "absorbe" these type of packet, it would be grate, but the simplier way would be on the IGATE...

```
> Eliminating munged packets created by Digis, and bad trackers may be more
> difficult.
>
> If some brave sole wants to play "Packet Police" and politely inform the digi
> or tracker owner of possible problems with thier station, go for it. We will
> all benefit in the end.
>
```

Again, if the problem comes from the internet side, the internet side should be filtering the packets.

```
> Bill KC9XG
>
> On Friday, June 02, 2000 1:41 PM, David VanHorn [SMTP:dvanhorn@cedar.net]
> wrote:
> > -----BEGIN PGP SIGNED MESSAGE-----
> > Hash: SHA1
> >
> > At 12:49 PM 6/2/00 -0400, twallace@ccgov.org wrote:
> > >We need to find out the SOURCE of the bad data causing the UNHANDLE
> > >EXCEPTIONS.
> > >until we do that, there is no way of filtering, of correcting the problem.
> > >I know it comes off of TCIP, I do not get it over the RF side
> >
> > I disagree. While it would be nice to eliminate the bad data, WAPRS needs
> > to be rejecting improperly formed packets. Dropping them on the floor is
> > fine, crashing is not.
> >
> > We have to realize that whatever the source, there will always be malformed
> > packets, and be ready to live with it. My personal experience in this is
> > banking terminals, we had to be very careful in packet parsing to always
> > parse from the same end of the packet, and to handle all possible cases.
> > Otherwise a few k$ in transactions dissapear when a terminal looses it's
> > mind. Merchants don't like that much.
> >
> > - --
> > Are you an ISP? Tired of spam?
> > www.spamwhack.com A pre-emptive strike against spam!
> >
> > Where's Dave? http://www.findu.com/cgi-bin/find.cgi?kc6ete-9
> >
> > -----BEGIN PGP SIGNATURE-----
> > Version: PGPFreeware 6.5.2 for non-commercial use <http://www.pgp.com>
> >
> > iQA/AwUBOTf/zIFlGDz1l6VWEQLcZwCfTJndGhADrS/xF7PK2B42R59MgDMAoMpR
> > y42gDRsoKjHbh1o3aAod05+b
> > =c46I
> > -----END PGP SIGNATURE-----
> >
> > ---
> > You are currently subscribed to aprssig as: BILLDIAZ@MEGSINET.NET
> > To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
> >
> > ---
> > You are currently subscribed to aprssig as: quesnelb@ve2.ele.etsmtl.ca
> > To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
```

--

Bruno Quesnel
VA2BMG
Stagiaire - MindReady

bruno.quesnel@mindready.com
quesnelb@ve2.ele.etsmtl.ca

88. [aprssig] Re: Bad data crashing WinAPRS

From: "Ben Miller" <benm@uniplex.com>
Date: Fri, 2 Jun 2000 12:52:10 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88133-2000.06.02-12.55.18--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Bill, Dave and all,

I have to agree with Dave. Applications need to be able to deal with error conditions. In this environment it is next to impossible to guarantee the perfect format of the thousands of packets coming from who knows where. This is particularly important in emergency situations.

Just my two cents. Bill, I think I might give Afilter a try.

Thanks all,

Ben Miller
KC5NFU

-----Original Message-----

From: bounce-aprssig-15665@lists.tapr.org
[mailto:bounce-aprssig-15665@lists.tapr.org] On Behalf Of
billdiaz@megsinet.net
Sent: Friday, June 02, 2000 12:11 PM
To: aprssig@lists.tapr.org
Subject: [aprssig] Re: Bad data crashing WinAPRS

Dave,

Bad packets should be eliminated at the source if at all possible. Packets that are not APRS compliant should not be placed on the Internet feed IMO. I also agree that each application should be fault tolerant. However, this may be difficult to achieve in practice.

Non-Compliant packets seem to come primarily from improperly setup TNC's, and trackers, or digis that munge the packet.

We need to have every digi owner check TNC setups. I am still seeing some digis sending timestamps in the header. This is not difficult to eliminate. Many errors observed today have one of the following in the header <UI>, <UI>, <UI R>.

Eliminating munged packets created by Digis, and bad trackers may be more difficult.

If some brave soul wants to play "Packet Police" and politely inform the digi or tracker owner of possible problems with their station, go for it. We will all benefit in the end.

Bill KC9XG

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> -----BEGIN PGP SIGNED MESSAGE-----

> Hash: SHA1

>

> At 12:49 PM 6/2/00 -0400, twallace@ccgov.org wrote:

> >We need to find out the SOURCE of the bad data causing the UNHANDLE
> > EXCEPTIONS.

> >until we do that, there is no way of filtering, of correcting the problem.

> >I know it comes off of TCIP, I do not get it over the RF side

>

> I disagree. While it would be nice to eliminate the bad data, WAPRS needs

```

> to be rejecting improperly formed packets. Dropping them on the floor is
> fine, crashing is not.
>
> We have to realize that whatever the source, there will always be
malformed
> packets, and be ready to live with it. My personal experience in this is
> banking terminals, we had to be very careful in packet parsing to always
> parse from the same end of the packet, and to handle all possible cases.
> Otherwise a few k$ in transactions disappear when a terminal loses it's
> mind. Merchants don't like that much.
>
> - --
> Are you an ISP? Tired of spam?
> www.spamwhack.com A pre-emptive strike against spam!
>
> Where's Dave? http://www.findu.com/cgi-bin/find.cgi?kc6ete-9
>
> -----BEGIN PGP SIGNATURE-----
> Version: PGPfreeware 6.5.2 for non-commercial use <http://www.pgp.com>
>
> iQA/AwUBOTf/zIFlGDz1l6VWEQLcZwCfTJndGhAdrS/xF7PK2B42R59MgDMAoMpr
> y42gDRsoKjHbh1o3aAod05+b
> =c46I
> -----END PGP SIGNATURE-----
>
>
> ---
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```

```

---
You are currently subscribed to aprssig as: benm@uniplex.com
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```

```

---
You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
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```

89. [aprssig] Re: Bad data crashing WinAPRS

```

From: David VanHorn <dvanhorn@cedar.net>
Date: Fri, 02 Jun 2000 12:47:53 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88136-2000.06.02-13.05.13--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

```

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

```

```

At 12:11 PM 6/2/00 -0500, Bill Diaz wrote:
>Dave,
> Bad packets should be eliminated at the source if at all possible.
Packets
>that are not APRS compliant should not be placed on the Internet feed IMO.
I
>also agree that each application should be fault tolerant. However, this
may
>be difficult to achieve in practice.

```

```

That may be, but there will always be something that periodically generates
bad data.
You have to handle that gracefully, or you will always have problems.

```

```

I agree that bad data shouldn't be put into the system, but we don't have
control of the whole system. Even over a simple serial cable, you can get
bad data at the recipient, when good data went in. There will also be
conditions when the aprs programs mung the data. Can anyone guarantee that
all packets generated, under all conditions, will be right? I can't.

```

```

The banking world uses a certification process (which became instantly
political) to assure that applications don't put malformed packets into the
system (and to keep new companies from competing with the old companies)
It filters out the easy ones, but STILL, the only absolute protection is at
your input filter.

```

```

Have I related the story of Bank of Hawaii?

```

We had, over a period of several years, expunged almost all of our problems with system crashes, but one remained. The BOH terminals would occasionally crash, with no real pattern. The application load was not the problem. (they run a very kinky interpreted language stored in ram) In looking through the terminal source, I identified a weakness, where our software would crash if we got alphas in a numeric date field (instead of 0112 if we got ABCD it would crash) This was caused by a shortcut, bypassing our memory manager, assuming that the data would always be numeric.... Well..

So I looked at that. The packets are LRC checked, and it was pretty unlikely that a bad packet could have a good LRC. So, I called up the host people at Visa, and asked them if it was ever possible that they would send alphas in the date field.. They said "NO WAY". So, I ran a test.. I used a custom language tool to create a simulation of a bad link. I threw in every error I could think of, and randomized them, and let this run for 7000 packets. (that's 7000 long distance phone calls) I trapped five cases of numerics in the date field.

In all five cases I had NAKed (asked for a repeat of) the host response packet.

So, I set a different test which always NAKed, and exactly one out of five times, I got this bad packet.

Called up visa again, and this time they tell me "Oh, we've been looking for that bug"

Turns out that a programmer shortcut made us susceptible to a visa host bug that was present on one of their five tandem machines, and only occurred when you asked for a repeat of the packet (rare). However, the packet would have been rejected, had we been smart about how we were checking the LRC..

A normal packet looks like this:
<STX> normal packet, many fields <ETX><LRC>

The buggy packet looks like this:
<STX>10 bytes of the normal packet<STX> normal packet, many fields <ETX><LRC>

Our LRC check algorithm started with the LRC, and ran backward through the packet till it hit the STX, and the LRC was good. The parsing algorithm started on the left with the first STX, and assumed that all the data would be properly positioned in the packet. The parser walked down the mangled packet, and among other junk, picked up alphas where the date field should be, since it was counting from the left STX.

So our two mistakes made us susceptible to a very rare host fault, which only occurred on the rare occasion that we asked for a repeat of the packet, and happened to be talking to the right machine at the moment.

Granted this is a completely different protocol, but the problem was the same, badly formed data on the network.

Point being, yes they can be a bitch to track down. They are all trackable, if you are willing to put the effort into it. Had we properly filtered our input, this visa host bug would have surfaced MUCH earlier, and would not have cost BOH's merchants nearly \$1M (est) in lost transactions.

- - -

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Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----

Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUB0tgPaYf1GDz1l6VWEQJh1ACfXoPctmcBpc40X/Np7yh4Hh31jkuAN0Qa
D8i8+RqF3ZC7qQmjazsT590W
=BEh0

-----END PGP SIGNATURE-----

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90. [aprssig] RE: 2.46 still bad

From: David VanHorn <dvanhorn@cedar.net>
Date: Fri, 02 Jun 2000 12:51:13 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88137-2000.06.02-13.08.51--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain
-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

```
>Header error KB9SZF-7>APK101,RELAY,WIDE5-5 [00/22/00 02:58:12]::KC6ETE-5  
:back  
>in town{0  
>Header error KB9SZF-7>APK101,KC6ETE-5*,WIDE5-5 [00/22/00 02:58:13]::KC6ETE-5  
>:back in town{0
```

Mea culpa. (My igate) I have some problem that is causing mstamp to be turned on in the TNC, even though the only mstamp command in the TNC init is "MSTAMP OFF".
I forgot to manually reset it after the most recent crash.

KB9SZF is a TH-D7 locally.

- - -

Are you an ISP? Tired of spam?
www.spamwhack.com A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----

Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBOTgQMYfLGDz1l6VWEQJvMACfYZsYrksj78DFoqniJxlenrorQ8AAAn264
dLIy/15IKrkGClu2u9od1EIc
=FBG/

-----END PGP SIGNATURE-----

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91. [aprssig] Re: Bad data crashing WinAPRS

From: Bruno Quesnel <quesnelb@ve2.ele.etsmtl.ca>
Date: Fri, 02 Jun 2000 14:10:51 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88138-2000.06.02-13.12.00--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

These malformed packet seems to be causing alot of problem.
Althought this seems to be causing more problem on the Internet side more than on the RF side (based on email that bares this thread theme), wouldn't be wise to get the IGATE to remove these malformed packets based on protocol definition ?

I actually have started to rewrite part of code for the aprsd program as a bachelor end project. I intend to write the program to be more portable then just one platform (not that I have a problem with Linux, I even encourage it). Other issues will be covered in the modifications. Since a certain rewrite is in the works, would it be justified to actually include protocol verification on the IGATE so that anything that is not protocol sound, is not added to the history ?

On unless I'm mistaken, this is not done yet. Please come back to me if the effort might be wort while or not...

PS : I'll be sending a web link pretty soon for the progress of my project (if any interested)... BTW, it is based on what Dale did... and will be mentionned in the code.

--

Bruno Quesnel
VA2BMG
Stagiaire - MindReady

bruno.quesnel@mindready.com
quesnelb@ve2.ele.etsmtl.ca

92. [aprssig] Re: Bad data crashing WinAPRS

From: David VanHorn <dvanhorn@cedar.net>
Date: Fri, 02 Jun 2000 12:56:03 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88139-2000.06.02-13.13.27--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

At 01:45 PM 6/2/00 -0400, Bruno Quesnel wrote:

>
> Hi to all,
>
> After following this thread, it seems that the IGATES are the problem.
> Since many operate only on RF and no problem, and as soon as you connect to
> an IGATE, the problem happens. </blockquote>> False security. You
get many many times less packets on RF, so a randomized error will take
much much longer to show up. > > It may in fact be an internet-related
problem, but I wouldn't bet on it at this time.> > From Bill's captures, I
see one set where my TNC on my igate caused a problem, (related to a tnc
init problem I'm having) > > Others look like they came out of the
transmitters that way.> > </html>>

False security. You get many many times less packets on RF, so a
randomized error will take much much longer to show up. It may in fact be
an internet-related problem, but I wouldn't bet on it at this time. From
Bill's captures, I see one set where my TNC on my igate caused a problem,
(related to a tnc init problem I'm having) Others look like they came out
of the transmitters that way.</html>

- - -

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www.spamwhack.com A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----

Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBOTgRU4F1GDz1l6VWEQJ0oQCgkAnvGXxAPCkahSKqLT/Fkr/+jncAnR1d
FLqa0knvCGcNAAK5/l0HuMnD
=DCj7

-----END PGP SIGNATURE-----

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

93. [aprssig] Re: Bad data crashing WinAPRS

From: Bill Diaz <billdiaz@megsinet.net>
Date: Fri, 2 Jun 2000 13:09:46 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88140-2000.06.02-13.15.24--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Bruno,

The only packets that originate on the internet, are logons, and logoffs.

The vast majority of packets are originated by a TNC and must come thru an
IGate before appearing on the feed.

Each TNC must be properly configured to ensure that APRS data is propagated as
intended. This includes, trackers and IGATES. I agree that IGATES should
absorb much of the burden. However, some IGATES are not fault tolerant on the
Internet side, and the same may be true to a lesser degree to the TNC or RF
side.

I am not sure how many different IGATE applications are in use today. It may
be difficult to get all IGATE authors to agree to reject non APRS compliant
packets.

If each APRS user has a properly set up TNC, then many of the problems may go
away without requiring changes to all of the existing IGATE applications. I
hope that IGATE authors will, in the future, reject non-compliant packets.

Bill KC9XG

On Friday, June 02, 2000 12:45 PM, Bruno Quesnel [SMTP:quesnelb@ve2.ele.etsm
tl.ca] wrote:

> Hi to all,
>

> After following this thread, it seems that the IGATES are the problem.
> Since
> many operate only on RF and no problem, and as soon as you connect to an
> IGATE,
> the problem happens.
>
> Bill Diaz wrote:
>
> > Dave,
> > Bad packets should be eliminated at the source if at all possible.
> > Packets
> > that are not APRS compliant should not be placed on the Internet feed IMO.
> > I
> > also agree that each application should be fault tolerant. However, this
> > may
> > be difficult to achieve in practice.
> >
> > Non-Compliant packets seem to come primarily from improperly setup TNC's,
> > and
> > trackers, or digis that munge the packet.
> >
> > We need to have every digi owner check TNC setups. I am still seeing some
> > digis sending timestamps in the header. This is not difficult to
eliminate.
> >
> > Many errors observed today have one of the following in the header <UI>,
> > <UI,
> > <UI R>.
> >
>
> I agree. If the Digis can remove or "absorbe" these type of packet, it
would
> be grate, but the simpliest way would be on the IGATE...
>
> > Eliminating munged packets created by Digis, and bad trackers may be more
> > difficult.
> >
> > If some brave sole wants to play "Packet Police" and politely inform the
> > digi
> > or tracker owner of possible problems with thier station, go for it. We
> > will
> > all benefit in the end.
> >
>
> Again, if the problem comes from the internet side, the internet side should
> be
> filtering the packets.
>
> > Bill KC9XG
> >
> > On Friday, June 02, 2000 1:41 PM, David VanHorn [SMTP:dvanhorn@cedar.net]
> > wrote:
> > > -----BEGIN PGP SIGNED MESSAGE-----
> > > Hash: SHA1
> > >
> > > At 12:49 PM 6/2/00 -0400, twallace@ccgov.org wrote:
> > > > We need to find out the SOURCE of the bad data causing the UNHANDLE
> > > > EXCEPTIONS.
> > > > until we do that, there is no way of filtering, of correcting the
> > > > problem.
> > > > I know it comes off of TCIP, I do not get it over the RF side
> > >
> > > I disagree. While it would be nice to eliminate the bad data, WAPRS
> > > needs
> > > to be rejecting improperly formed packets. Dropping them on the floor is
> > > fine, crashing is not.
> > >
> > > We have to realize that whatever the source, there will always be
> > > malformed
> > > packets, and be ready to live with it. My personal experience in this is
> > > banking terminals, we had to be very careful in packet parsing to always
> > > parse from the same end of the packet, and to handle all possible cases.
> > > Otherwise a few k\$ in transactions dissapear when a terminal looses it's
> > > mind. Merchants don't like that much.
> > >
> > > --
> > > Are you an ISP? Tired of spam?
> > > www.spamwhack.com A pre-emptive strike against spam!
> > >

```

> > > Where's Dave? http://www.findu.com/cgi-bin/find.cgi?kc6ete-9
> > >
> > > -----BEGIN PGP SIGNATURE-----
> > > Version: PGPfreeware 6.5.2 for non-commercial use <http://www.pgp.com>
> > >
> > > iQA/AwUBOTf/zIFlGDz1l6VWEQLcZwCfTJndGhAdrS/xF7PK2B42R59MgDMAoMpr
> > > y42gDRsoKjHbh1o3aAod05+b
> > > =c46I
> > > -----END PGP SIGNATURE-----
> > >
> > > ---
> > > You are currently subscribed to aprssig as: BILLDIAZ@MEGSINET.NET
> > > To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
> > >
> > > ---
> > > You are currently subscribed to aprssig as: quesnelb@ve2.ele.etsmtl.ca
> > > To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
> > >
> > >
> > > --
> Bruno Quesnel                                bruno.quesnel@mindready.com
> VA2BMG                                         quesnelb@ve2.ele.etsmtl.ca
> Stagiaire - MindReady
>
>
> << File: ATT00000.html >>

```

```

---
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```

94. [aprssig] Bad packets and munded addresses

```

From: Gerry Creager <gerry@cs.tamu.edu>
Date: Fri, 02 Jun 2000 13:12:57 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88141-2000.06.02-13.15.52--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

If N5IUT is following this SIG, please contact me via private e-mail.

```

73, gerry

```

--
Gerry Creager                                |      Never ascribe to Malice that
Computer Science Department                  |      which can adequately be
Texas A&M University                        |      explained by Stupidity.
979.458.4020 (Phone)                       |      -- Lazerus Long
979.847.8578 (Fax)

```

```

---
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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

```

95. [aprssig] IP Crashing us...

```

From: Jim Duncan <ku0g@kcaprs.org>
Date: Fri, 02 Jun 2000 13:36:55 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88144-2000.06.02-13.39.48--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

The solution is for everyone to sign off the main feed and come up on the Port 23 (unbuffered) connection. The crash is contained somewhere within the first 30 seconds of data coming from the buffer dump you get when you logon to www.aprs.net or second.aprs.net....

I logged on to Port 23 15 minutes ago and no problems...

```

--
73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group, W0APR
First Alert Storm Team KMBC-TV9
Mailto:ku0g@kcaprs.org
Webpage: http://www.kcaprs.org

```

```

---
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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

```

96. [aprssid] Observation

From: twallace@ccgov.org
Date: Fri, 2 Jun 2000 14:53:26 -0400
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Message-ID: <LYR842-88152-2000.06.02-13.52.50--lyris.aprssid#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I am running strictly TCIP here at work,
I just noticed where I believe it is coming from.
Sorry to do this NWS ...
every time I get a packet from KB2UQX on the Warning,
I get immediate unhandled exceptions.

I am NOT pointing my finger!,
this is just an observation, that maybe WinAPRS doesn't like the
NWS-WARN BLTNs?

Unfortunately my BLTN is right before this each time,
and if it is MY packet, it would have NO TNC involved.
but I will correct it as soon as possible

You are currently subscribed to aprssid as: lyris.aprssid@tapr.org
To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org

97. [aprssid] Re: IP Crashing us...

From: David VanHorn <dvanhorn@cedar.net>
Date: Fri, 02 Jun 2000 13:38:22 -0700
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Message-ID: <LYR842-88154-2000.06.02-13.55.40--lyris.aprssid#tapr.org@lists.tapr.org>
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

At 01:36 PM 6/2/00 -0500, Jim Duncan wrote:
>The solution is for everyone to sign off the main feed and come up on
>the Port 23 (unbuffered) connection. The crash is contained somewhere
>within the first 30 seconds of data coming from the buffer dump you get
>when you logon to www.aprs.net or second.aprs.net....

Well, that's it, I'm dead.

I can run JUST long enough for it to init the TNC, and establish the IP
connection.
The moment I get control, it crashes.

Would be nice if I could gain control of the system BEFORE it does all this.
I can disconnect from the net, and wait for it to give up trying the IP
(takes a long time) then maybe I can reset this..

I shouldn't have to disconnect my entire network to solve this kind of
problem..

- - -

Are you an ISP? Tired of spam?
www.spamwhack.com A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----
Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUB0TgbPoF1GDz116VWEQK//gCeMchfg9hZTdj5EDXvIkjgTWpd0sEAo0N4
uCdjGPlAjXiA8RlvsZB0ljek
=DJDF
-----END PGP SIGNATURE-----

You are currently subscribed to aprssid as: lyris.aprssid@tapr.org
To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org

98. [aprssig] Re: IP Crashing us...

From: Guy Story <kc5goi@tapr.org>
Date: Fri, 2 Jun 2000 14:01:56 -0500 (CDT)
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Message-ID: <LYR842-88157-2000.06.02-14.04.41--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

David, edit your aprsserver.txt file. Comment out the buffered feed or change 10151 to 23. You will want to edit the aprsxstra.txt file too since it provides similar functions. I have removed all entries on my igate that connect to buffered ports. This way when you restart WinAPRS you will not get the offending packet(s) and you do not get to the buffered feeds by accident.

73,

Guy Story
KC5G0I
kc5goi@tapr.org
<http://www.kc5goi.net>

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

99. [aprssig] Re: IP Crashing us...

From: David VanHorn <dvanhorn@cedar.net>
Date: Fri, 02 Jun 2000 13:49:09 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88159-2000.06.02-14.07.10--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

I'm trying it, but I think all we're seeing is that on a slower feed, it takes longer to hit.
The buffer may contain some "poison pills" but they would have been present in the unbuffered stream too, unless there's specifically a problem with the buffering.

- - -

Are you an ISP? Tired of spam?
www.spamwhack.com A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----
Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBOTgdxYf1Gdz1l6VWEQJq6wCfW4fA5uaMjiPIziPCDExcke3+WfcAoLu2
xyI8ELLCeFhz7d4Zbkal3Ppd
=8P+t

-----END PGP SIGNATURE-----

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

100. [aprssig] Re: IP Crashing us...

From: David VanHorn <dvanhorn@cedar.net>
Date: Fri, 02 Jun 2000 13:49:09 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88159-2000.06.02-14.07.10--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

I'm trying it, but I think all we're seeing is that on a slower feed, it takes longer to hit.
The buffer may contain some "poison pills" but they would have been present in the unbuffered stream too, unless there's specifically a problem with the buffering.

- - -
Are you an ISP? Tired of spam?
www.spamwhack.com A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----
Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBOTgdxYf1GDz116VWEQJq6wCfW4fA5uaMjiPIziPCDExc3+WfcAoLu2
xyI8ELLCeFhz7d4Zbk3Ppd
=8P+t
-----END PGP SIGNATURE-----

- - -
You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

101. [aprssig] Re: IP Crashing us...

From: Guy Story <kc5goi@tapr.org>
Date: Fri, 2 Jun 2000 14:01:56 -0500 (CDT)
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Message-ID: <LYR842-88157-2000.06.02-14.04.41--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

David, edit your aprsserver.txt file. Comment out the buffered feed or change 10151 to 23. You will want to edit the aprsxstra.txt file too since it provides simular functions. I have removed all entries on my igate that connect to buffered ports. This way when you restart WinAPRS you will not get the offending packet(s) and you do not get to the buffered feeds by accident.

73,

Guy Story
KC5G0I
kc5goi@tapr.org
<http://www.kc5goi.net>

- - -
You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

102. [aprssig] Re: Bad data crashing WinAPRS

From: "Eric Reid" <reid@sympatico.ca>
Date: Fri, 2 Jun 2000 15:08:07 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88160-2000.06.02-20.04.32--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

At 12:49 PM 6/2/00 -0400, twallace@ccgov.org wrote:
>We need to find out the SOURCE of the bad data causing the UNHANDLE
>EXCEPTIONS.
>until we do that, there is no way of filtering, of correcting the problem.
>I know it comes off of TCIP, I do not get it over the RF side

Sorry to burst your bubble, but my station only runs WinAPRS on RF and I have also have had the UNHANDLE EXCEPTIONS crash.

My station TNC is running in the KISS mode - just incase someone is doing detective work, my location is Southeastern Ontario

de Eric - VE3GSI
reid@sympatico.ca

New! Amateur Swap page www.va3wm.haybay.net

- - -
You are currently subscribed to aprssig as: lyris.aprssig@tapr.org

103. [aprssid] RE: 2.46 still bad

From: "Charles Layno" <clayno@nc-cap.org>
Date: Fri, 2 Jun 2000 18:54:24 -0700
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Message-ID: <LYR842-88164-2000.06.02-20.06.04--lyris.aprssid#tapr.org@lists.tapr.org>
Rendered body type: text/plain

If the following is correct, the main area appears to be something coming off the WA4BWB-3 digi into the internet system. I know most of the stations listed here and their packets do not have problems locally through the IGATE here. Maybe we need to look at the IGATE or digi around WA4BWB-3.

Charles Layno
W4CL

----- Original Message -----

From: Bill Diaz <billdiaz@megsinet.net>
To: TAPR APRS Special Interest Group <aprssid@lists.tapr.org>
Sent: Friday, June 02, 2000 10:15 AM
Subject: [aprssid] RE: 2.46 still bad

> Ben,
> I agree that something on the internet feed may be causing the reported
> crashes.
> The following is a heavily edited listing of errors reported by AFilter
> recently.
>
> Header error WX4GS0-2>APW228,WA4BWB-3*,WIDE6-3 <UI>:=041508 WX4GS0 WX
> MONITORING NETWORK CENTRAL NC
> Header error KE4RCO>APRX44,WA4BWB-3*,WIDE3
<UI>:=3525.00N/08108.00W-000/000/
> Kevin in Iron Station, NC
> Header error W4RDU-5>APRS,WA4BWB-3*,WIDE
> <UI>:=3546.76NT07840.50W#PHG6460/W-R-Trace Digi in Raleigh,NC
> Header error KC7ZR-3>WIDE2-1
>
<UI>,GPSLK,KC7ZR-2*:\$GPRMC,154255.47,A,4118.5356,N,10535.3487,W,00.0,000.0,0
> 20600,11.,E*7C
> Header error KQ4MS-3>APRS,WA4BWB-3*,WIDE6-4
> <UI>:=3549.23NN07818.47W#PHG6460/W-R-T-N Digi in Zebulon, NC
> Header error KE4IAM>APW228,WA4BWB-3*,WIDE6-3 <UI>:=172221 EC Guilford
County NC
> ARES gcares@usa.net
> Header error KD4ZB-3>APRS,WIDE,WA4BWB-3*,WIDE3
> <UI>:=13712.28NN07821.46W#PHG4623/ W-R-T-VA digi Farmville, VA.
> Header error KA4U>APZ031,WA4BWB-3*,WIDE6 <UI>:=3532. N/08106.
WxXASTIR-Linux
> de John ka4u@vnet.net
> Header error
>
[invalid]>APRSW,[invalid],WA2GUG-2,KB2EAR-1*:=4005.18N/07457.33WyPHG5330/Win
> APRS 2.3.3 -PABUCBENSALEM-233-<530>
> ProcessHeader error :
>
[invalid]>APRSW,[invalid],WA2GUG-2,KB2EAR-1*:=4005.18N/07457.33WyPHG5330/Win
> APRS 2.3.3 -PABUCBENSALEM-233-<530>
> Header error K3NXF-6>W6KRW-2* <UI>
> R,APRS,RELAY,WA0RT0-10,W6KRW-1:13304.25N/11634.75W_K3NXF=Rmt WX Station in
> Julian, CA at 4,313ft
> Header error N4WYK-2>APRS,WA4BWB-3*,WIDE3
> <UI>:=3543.41NN08136.50W#PHG5730/W-R-Trace on High Peak Mtn. NC
> Header error KC6VVT>WIDE4 <UI>,APRS,W6KRW-2*:=252322z APRS846 up
> Header error KC4ZPL-3>APRS,WD4HDL-1,WA4BWB-3*,WIDE6-4
> <UI>:=13901.24NN07821.57W#PHG5160 W/R/T DIGI Strasburg,Va.
> Header error KB9SZF-7>APK101,RELAY,WIDE5-5 [00/22/00 02:58:12]::KC6ETE-5
:back
> in town{0
> Header error KB9SZF-7>APK101,KC6ETE-5*,WIDE5-5 [00/22/00
02:58:13]::KC6ETE-5
> :back in town{0
> GPGGA ChkSum error WA7LFT-1
> \$GPGGA,152743,4148.229,N,10714.267,W,1,07,1.2,2135.2,M,-18.8,M,,*
> Header error W4DLO-12>GPSLU,WA4BWB-3*,WIDE2
> <UI>:=155145,3801.203,N,07908.950,W,1,07,1.5,510.2,M,-33.3,M,,*
> GPGGA ChkSum error W4DLO-12
> \$GPGGA,155145,3801.203,N,07908.950,W,1,07,1.5,510.2,M,-33.3,M,,*


```

> Header error KD4PBS-2>APRS,WA4BWB-3*,WIDE3-1
> <UI>:=3537.95N/07847.70WIPHG1220/IGate,JavaPRs page @ kd4pbs.dynip.c
> Header error KJ7AZ-6>WIDE2
> <UI>,APRS,KC7ZRU-2*!4144.86NN10749.82W#PHG6570/Continental Divide APRS
Digi on
> Solar Power
> Header error K4ITV>AP5199,WD4JJ-3,WIDE,WA4BWB-3* <UI>
R>:>301516z[199XW]APRS+SA
> k4itv@aol.com
> Header error KE4FCW>APM342,WA4BWB-3*,WIDE4-2
> <UI>:=3608.70N/07950.70W_PHG6020/MacAPRS 3.4.2 -NCGUIGREENSBO-342-<
> Header error KE4FCW>APM342,WA4BWB-3*,WIDE4-2
> <UI>:_06021627c227s005g009t089r000p000h58b10199mU2K
> Header error KJ7AZ-2>KC7ZRU-2*
> <UI>,APW246,KJ7AZ-5:=4147.25N/10714.56WIPHG2150/WinAPRS 2.4.3 -WYCARRAWLINS
> -246-<530>
> Header error W7MOT-4>TRACE5-1
> <UI>,BEACON,KJ7KY-15,W6SCE-11,W6KRW-1,W6KRW-2*:>White Tanks Mountain VHF
> Digipeater -- RELAY/WIDE/TRACE
> GPRMC error WB4SYW-14 3618.9950
> $GPRMC,134908,V,3618.9950,N,07833.5407,W,000.0,000.0,020600,008.9,W*63
> Header error KC5NLO>N5IUT*
<UI>,APW240,tA,ARS:=2611.85N/09814.06WPHG7260/C-5
> Header error KF4UCI-3>APRS,KD4ZB-3,WA4BWB-3*,TRACE4-2
> <UI>:!3800.01NN07827.51W#PHG3638/A=1500/W-R Charlottesville
> Header error KE4RCO>APRX44,WA4BWB-3*,WIDE3
<UI>:=3525.00N/08108.00W-000/000/
> Kevin in Iron Station, NC
> Header error KB4TWG-9>BEACON,WA4BWB-3*,WIDE3-2,TRACE
> <UI>:!3546.14NN07955.42W_PHG7560 W-R-T DIGI WX4GSO WX Centra
> Header error KB4TWG-9>APRS,WA4BWB-3*,WIDE3-1
> <UI>:!000000008035E0034----03500255---0005031500000000
> Header error N4WYK-9>APRS,N4AGN-2,WR4BEG,WA4BWB-3*,TRACE3
> <UI>:=3534.04NN08105.29W#PHG6760/W-R-Trace Digi on Ande
> Header error WB4WOR-9>APW240,W4GSO,WR4BEG,WA4BWB-3*
> <UI>:=3556.31N/07958.73W8PHG7260/Channel 8 Weather Center and
> Header error KC4ZPL-3>APRS,WD4HDL-1,KF4UCI-3,KD4ZB-3,WA4BWB-3*
> <UI>:!3901.24NN07821.57W#PHG5160 W/R/T DIGI Strasb
> Header error AA4L>APW245,WB4QOJ-5,WA4BWB-3*,WIDE <UI>
C>:=3717.13N/08006.25W_PHG7130/WinAPRS2.4.5 -VAROASALEM -2
> Header error WA4BWB-3>APRS,NM4V-3,WIDE,WIDE3-3
> <UI>:!3732.57NN07912.33W#PHG4623/W-R-T-VA digi Lynchburg,VA.
>
> Header error KD4JZZ>BEACON,WA4BWB-3*,WIDE3 <UI>:!3604.88N/08016.20W-APRS
QRT
> @291515z
> Header error K4RRZ>APR837,W4NHV-9,WA4BWB-3*
> <UI>:=3443.63N/07912.53W-000/000/varsie in pembroke,nc
> Header error WB4IUY>APR810,WA4BWB-3*,WIDE6-1 <UI>:>172209z
> wb4iuy@wb4iuy.#rtt.nc.usa.noam
> Header error WD4JJ-3>APRS,WIDE,WA4BWB-3* <UI>
R>:!3626.21NT08207.78W#PHG6870/A=004350/W-R Holston mtn in NE Tn
> Header error WD4ACR>APW227,WR4BEG,WA4BWB-3*
> <UI>:=3604.58N/07950.58W-PHG7138/MacAPRS 2.2.7 -NCGUIGSO -227-<5
> Header error WB4QOJ-5>APRS,WIDE,WIDE,WA4BWB-3* <UI>
R>:!3711.08N/08010.03W#PHG5860/WIDE 3960'POOR MTN
> Header error WA4MJF>APRS,KQ4MS-3,WA4BWB-3*,WIDE3 <UI>:>292343z / EMail
> wa4mjf@arrrl.net
> Header error AD4CR>APW245,GATE,WA4BWB-3* <UI>:>061002 Kentucky 30m>2m
Gateway
> 10.151.00 Lsb>144.39Mhz
> Header error UC5REB>WIDE5-K <UI>,A
R846,N5'UT*,WID/:=A855.84N/09833.1DwyPHG61_0/
> Jim,8kc5reb@6ol.com
> Header error
KF4PSB>APW243,N4WYK-2,KE4CJA-4,N4AGN-2,WR4BEG,WA4BWB-3*,TRACE3
> <UI>:=3558.50N/08130.30W-PHG2250/alle
> Header error WB4SYW-5>APRB03,WA4BWB-3*
> <UI>:=3618.55N/07834.98W#000/000/NCGRANOXFORD
> Header error KE4UOD>APR846,W4NHV-9,WA4BWB-3* <UI> R>:=3533. N/07839.
> W-000/000/MIKE, IN JOHNSTON CO. NC
> Loc error KC8HFX 3949 5 =3949N N/08432.66W-bob rphues@infinet.com
> Header error W2MG-3>APR841,N4EVA-10,WA4BWB-3* <UI>:=3751. N/07731.
> W#PHG9160/Martin, Doswell,VA w2mg@compuserve
> GPRMC error KE4FGW-9 3508.2937
> $GPRMC,015859,V,3508.2937,N,08514.1582,W,0.000,0.0,180895,2.6,W*6F
> Header error N80VD>APW245,K4ROK,WA4BWB-3* <UI>
R>:=3549.73N/07826.16WZPHG7160/WinAPRS 2.4.5 -NCWAKWENDELL -245-<53
> Header error M5SMN>N5IUT*<<UI>,AP5922,W5TQ:>321908z[0R22]APRSaSA StarMup

```

```

152043
> Header error KT4DZ>APW244,WA4BWB-3*,WIDE3
> <UI>:=3848.65N/07726.20W-PHG2100/kt4dz@arrl.net -VAFAICENTREVI-244-<630
> GPRMC ChkSum error KA9MVA-6
> $GPRMC,61917,,36092477N,0959.608,,0.00,0.0,020600,4.8,E*63
> GPRMC ChkSum error KJ7AZ-1
> $GPRMC,140819,A,4147.094,N,10715.706,W,000.0,331.8,020600,011.9,E*
> 10*,WIDE5-2 [00/22/00 03:03:35]:'r;A1 K\]
>
> The largest number of errors seem to be caused by improperly setup TNC's.
> The next culprit appears to be trackers or digis that are inserting
garbage
> characters in packets.
>
> Not sure what is causing WinAprs to crash but it is likely one of the
badly
> formatted packets is causing an exception, and WinAprs is not handling the
> exception properly.
>
> Bill KC9XG
>
> On Friday, June 02, 2000 11:21 AM, Ben Miller [SMTP:benm@uniplex.com]
wrote:
> > I've just tested this with 2.4.4 and even 2.4.3 and it is crashing
almost
> > immediately after I connect to the internet feed. My guess is there is
> > something coming across the feed that is very displeasing to WinAPRS.
> >
> > Ben Miller
> > KC5NFU
>
>
>
> ---
> You are currently subscribed to aprssig as: clayno@nc-cap.org
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

```

```

---
You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

```

104. [aprssig] AGWPE?

```

From: "Jim Andrews" <jim@markfield.u-net.com>
Date: Fri, 2 Jun 2000 21:19:57 +0100
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88163-2000.06.02-20.05.45--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Anyone know where the AGWPE site has gone to?

www.raag.org/sv2agw is unknown.

```

Jim

```

---
You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

```

105. [aprssig] WinAPRS

```

From: Ray Vaughan <ray@rayvaughan.com>
Date: Fri, 02 Jun 2000 18:00:16 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88165-2000.06.02-20.06.19--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I'm taking my first baby steps with the Web server option in 2.4.6. So far, very cool!

Here's mine if anyone wants to try it. KD4BBM-12 is my car if you want to see maps.

http://kd4bbm.dyndns.org:81

```

The problem is that I'm getting errors when I want to see lists. After a short delay, I get a message that the "connection was reset by peer" Okay, which one of you guys is disconnecting me? :)

Really, what does that error indicate?

btw, for all I know, I could have an unexpected exception at home right now... in fact, I'm almost sure of it. Could that be the problem?

Is anyone having better luck?

This is a very cool feature. Try it out if you haven't already.

Ray J. Vaughan, MS, CBTE, CERT
KD4BBM PG-7-15266
ray@rayvaughan.com
ray@2-way.com
<http://www.rayvaughan.com/>

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

106. [aprssig] Palm Maps

From: John W Wilson <z004391b@bc.seflin.org>
Date: Fri, 2 Jun 2000 20:43:13 -0400 (EDT)
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88166-2000.06.02-20.06.26--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Does anyone know how I can make maps for the PalmAPRS? Thanks,

John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

107. [aprssig] Re: IP Crashing us...

From: "Charles Layno" <clayno@nc-cap.org>
Date: Fri, 2 Jun 2000 18:57:54 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88168-2000.06.02-20.08.45--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I run port 23 all time on my IGATE and it has crashed twice today on port 23.

Charles Layno
W4CL

----- Original Message -----

From: Jim Duncan <ku0g@kcaprs.org>
To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Sent: Friday, June 02, 2000 11:36 AM
Subject: [aprssig] IP Crashing us...

> The solution is for everyone to sign off the main feed and come up on
> the Port 23 (unbuffered) connection. The crash is contained somewhere
> within the first 30 seconds of data coming from the buffer dump you get
> when you logon to www.aprs.net or second.aprs.net....

>

> I logged on to Port 23 15 minutes ago and no problems...

> --

> 73 de Jim, KU0G
> Chairman/Coordinator
> Kansas City APRS Working Group, W0APR
> First Alert Storm Team KMBC-TV9
> Mailto:ku0g@kcaprs.org
> Webpage: <http://www.kcaprs.org>

>

> ---

> You are currently subscribed to aprssig as: clayno@nc-cap.org
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

108. [aprssig] WinAprs DXCC List

From: "Nick Critelli" <k0pcg@CritelliLaw.com>
Date: Fri, 2 Jun 2000 16:12:04 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88169-2000.06.02-20.10.13--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Anyone have a reasonably up to date DXCC list for use in WINAPRS?

K0PCG

-----NOTICE-----

This privacy of this Electronic Communication is protected by Law.
This message is intended for the sole use and benefit
of the person to whom it is addressed.

Nick Critelli
Nicholas Critelli Associates, pc
Attorneys and Barristers at Law
Ph: [USA] 515.243.3122

Nick@CritelliLaw.com

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

109. [aprssig] Re: IP Crashing us...

From: David VanHorn <dvanhorn@cedar.net>
Date: Fri, 02 Jun 2000 13:57:35 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Message-ID: <LYR842-88172-2000.06.02-20.14.30--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

At 02:01 PM 6/2/00 -0500, Guy Story wrote:
>David, edit your aprserver.txt file. Comment out the buffered feed or
>change 10151 to 23. You will want to edit the aprsxstra.txt file too
>since it provides simular functions. I have removed all entries on my
>igate that connect to buffered ports. This way when you restart WinAPRS
>you will not get the offending packet(s) and you do not get to the
>buffered feeds by accident.

Ok, I see what you're saying, but unless there's a problem with the
buffering itself, all this will do is eliminate crashes on bad data that
was buffered. When the next poison pill comes along, we still get to eat it.

- - -

Are you an ISP? Tired of spam?
www.spamwhack.com A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----
Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBOTgfv4F1GDz116VWEQJG8wCgqNqUNl1HkvHIku0htAG0WfDmXS0An1i7
J4P616NmZkQL/keNexLY/pJ8
=buBi
-----END PGP SIGNATURE-----

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

110. [aprssig] Re: IP Crashing us...

From: David VanHorn <dvanhorn@cedar.net>
Date: Fri, 02 Jun 2000 17:56:45 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Cc: TAPR APRS Special Interest Group <aprssid@lists.tapr.org>
Message-ID: <LYR842-88173-2000.06.02-20.14.36--lyris.aprssid#tapr.org@lists.tapr.org>
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

At 02:29 PM 6/2/00 -0500, Guy Story wrote:
>that is correct. consider it a bandaid fix.

While I was out for a couple hours, my bandaid fell off.
Crashed again, on the unbuffered feed.

- - -
Are you an ISP? Tired of spam?
www.spamwhack.com A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----
Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUB0ThXzYf1GDz116VWEQKyagCeLZLYaYuemup7zzysv0j1XfTM9TQAnjhF
H5+v70pLsYav52ERLTCdkGvY
=RFm0
-----END PGP SIGNATURE-----

You are currently subscribed to aprssid as: lyris.aprssid@tapr.org
To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org

111. [aprssid] Re: IP Crashing us...

From: Robbie Robertson <mwrrobertson@mediaone.net>
Date: Fri, 02 Jun 2000 20:12:35 -0500
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssid@lists.tapr.org>
Message-ID: <LYR842-88171-2000.06.02-20.14.19--lyris.aprssid#tapr.org@lists.tapr.org>
Rendered body type: text/plain

David VanHorn wrote:
>
> -----BEGIN PGP SIGNED MESSAGE-----
> Hash: SHA1
>
> I'm trying it, but I think all we're seeing is that on a slower feed, it
> takes longer to hit.
> The buffer may contain some "poison pills" but they would have been present
> in the unbuffered stream too, unless there's specifically a problem with
> the buffering.
>

Makes sense, but wonder if we are missing a way to gain
info on the source? Like obtain data from findu.com on
a given aprsserver, then on to the next? I am sure the
the server of bad data would like to know as well..

Robbie

--

Are we having fun yet?
73 - Robbie - WA9INF
***** --... -- *****

You are currently subscribed to aprssid as: lyris.aprssid@tapr.org
To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org

112. [aprssid] Re: Linux UI-Digipeater

From: John Gorkos <jgorkos@CellNet.com>
Date: Fri, 02 Jun 2000 16:40:02 -0500
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Message-ID: <LYR842-88174-2000.06.02-20.18.33--lyris.aprssid#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Jeff-
Have you (or anyone else on the SIG) gotten both aprsdigi and aprsd to

co-exist? Like I said before, Alan's aprsdigi requires:
Red Hat RPM: aprsdigi-2.0-pre3-1.i386.rpm (73k bytes, Friday,
07-May-1999 17:59:11 EDT).
ax25-utils-2.1.42a-n2ygk: Hacked up ax25-utils needed for
aprsdigi-2.0 and Linux kernel 2.2.

As far as I can tell, it needs a recompiled kernel with Alan's
modifications, plus an additional libax25.so which is incompatible with
all the OTHER ax25 utils. As I said before, they seem to be mutually
exclusive, which causes me pain... :(

John Gorkos

Jeff Brenton wrote:

```
>  
> Oh, you'll also need aprsd (which can be downloaded from TAPR) for the  
> IGate function. And whatever other tools you want... all can use the AX.25  
> tools simultaneously.  
>  
> Jeff Brenton  
> President,  
> Engineered Software Products, Inc  
> http://espi.com  
> Questionable web page: http://dididahdahdidit.com  
> Northern Illinois APRS Network: http://nian.aprs.net  
>  
> My goal in life: To be remembered as someone who always  
> stated what should have been obvious to everyone in the  
> first place.
```

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

113. [aprssig] Re: IP Crashing us...

From: "David A. Aitcheson" <cdj-intl@portal.nothingbutshell.net>
Date: Fri, 2 Jun 2000 15:54:04 -0400 (EDT)
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88176-2000.06.02-20.26.39--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

All,

Another difference that I am noticing is that 'second.aprs.net'
is sending a ^M ([control] M) at the end of each line for the
first few lines then starts sending the same signal at the
beginning of each line. I am not seeing this when I look at
'www.aprs.net' which I did both observations from a x-term
running on a unix (FreeBSD) platform on a Sun Sparc-20.

I have that data captured to files if anyone would like to
disect it.

Sorry this is short - the harmonic wants to go swimming at the
pool and its "Mr. Mom's" turn to take her!

73

David A. Aitcheson - KB3EFS

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

114. [aprssig] Going Digital ??

From: Wally Foster <wfoster@hsc.usc.edu>
Date: Fri, 02 Jun 2000 16:07:11 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88177-2000.06.02-20.27.04--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Slightly off topic, but who knows of a good packet program that will
operate in a Win95/98 environment ?? Straight packet please, no host mode
or DEDcode chips..

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org

115. [aprssid] WinAPRS 2.4.3 seems crash free

From: "Lumpy" <lumpy@digitalcartography.com>
Date: Fri, 2 Jun 2000 17:07:29 -0600
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Message-ID: <LYR842-88179-2000.06.02-20.27.38--lyris.aprssid#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I ran 2.4.3 on TCP for an hour without problems.
Still running.

--

I don't have 2.4.4

--

2.4.5 crashed on TCP within seconds, as most
of the other posts suggest.

--

2.4.6 crashed on TCP, also within seconds PLUS
this odd behavior...

My D7A, n0eq-7, is set for
105 27.03W / 40 43.03N

But it shows up at
85 27.03W (lat is correct)

So 2.4.6 is crashing, plus it puts my
lon coordinate 20 degrees east.

I went back and forth between versions
and had two WinAPRS stations side by side,
both with different radios and TNC's.
Errors repeated themselves every time.

--

I think either the error is in
WinAPRS 2.4.5 or higher or it's in
those version's ability (or inability)
to handle some bad data coming from ???

Lumpy n0eq

--

The Very Unofficial Colorado APRS Page
<http://www.digitalcartography.com>

You are currently subscribed to aprssid as: lyris.aprssid@tapr.org
To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org

116. [aprssid] RE: WinAprs crashes.

From: "Chris Schwab" <1schwab1@tampabay.rr.com>
Date: Fri, 2 Jun 2000 18:25:18 -0400
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Message-ID: <LYR842-88180-2000.06.02-20.27.43--lyris.aprssid#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I'm hoping Bill or someone else can point me in the right direction..

I've set up Afilter here, and it connects to the internet correctly (or so
it seems).

WinAPRS will connect to Afilter, but no packets get passed to WinAPRS from
Afilter.

I've unchecked all of the boxes in Afilter, which if I'm reading correct,
should pass ALL packets (but with error checking) but nothing ever reaches
WinAPRS.

Any ideas? I'm tired of having to restart WinAPRS every 10 or 15 minutes
today (even on the Unbuffered feed!)

Chris
N4BSA in Largo, FL

-----Original Message-----

From: bounce-aprssid-2015@lists.tapr.org
[mailto:bounce-aprssid-2015@lists.tapr.org] On Behalf Of Bill Diaz

Sent: Friday, June 02, 2000 1:20 PM
To: TAPR APRS Special Interest Group
Subject: [aprssig] WinAprs crashes.

Jim,

I will be posting a new version of AFilter shortly. Version 1.1.4 has increased error checking and reporting. My recent post lists some of header errors that I believe are causing WinAprs to crash. AFilter handles these exceptions, but in some cases may pass certain bad packets to the client application.

AFilter will be available at <ftp://ftp.billdiaz.dynip.com/outgoing> at about 13:00 CDT today. Need to clean up a few things before I post it.

Bill KC9XG

On Friday, June 02, 2000 11:40 AM, Jim Gill [SMTP:gillj@uswest.net] wrote:
> > >I put 2.4.6 up as soon as the mail came out yesterday. I'm running VHF
> > (MFJ
> > >TNC2) and Igating. Been running just under 24 hours. I still have the
> > >internet feed coming in but have two popups as follows:
> > I've had exactly two crashes as well..
>
> How about using AFilter between the APRServe feed and WinAPRS? If you
want
> to still get posits from all stations, you could set the distance filter
> very high, but at least you'd get the error checking and filtering that
> AFilter offers. Maybe that will cut down the crashes. I haven't had any
> with this set-up.
>
> I can't find the URL I got AFilter from... it's not in the readme.
> Bill,(Diaz), could you post a link?
>
> Jim NØRMO
>
>
>
> ---
> You are currently subscribed to aprssig as: BILLDIAZ@MEGSINET.NET
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

You are currently subscribed to aprssig as: 1SCHWAB1@TAMPABAY.RR.COM
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

117. [aprssig] New AFilter version 1.1.4

From: Bill Diaz <billdiaz@megsinet.net>
Date: Fri, 2 Jun 2000 14:45:58 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88187-2000.06.02-20.28.18--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

AFilter 1.1.4 is available for download at
<ftp://ftp.billdiaz.dynip.com/outgoing> Bandwidth is limited, and ftp is only
available when I am online.

AFilter now allows the user to view, and edit text files. This feature can be
used to view ErrorLog.txt while an AFilter session is active.

I have also posted ErrorLog.txt. This file contains many of the errors logged
by AFilter 1.1.4 during a short time period this morning. I will post new
ErrorLog files to the ftp site as time permits.

AFilter does not catch all errors. It will log certain packets as errors, but
may, under certain conditions pass the original packet to a client application.

A new error category, Header errors has been added in 1.1.4. Headers that
contain timestamps or variants of <UI will be logged as errors.

Partial listing of error conditions :

NMEA strings with bad checksums. If no checksum is present this is not considered an error.

\$GPRMC strings that contain V, indicating an invalid location.

NULL location packets. Any APRS packet that has a location of 0000.00,00000.00 will be logged as an error when distance filtering is on. This includes Mic-E, and compressed locations. If invalid characters are found in a location field, it will set location to NULL or 0,0. If a station previously passed the distance filter, a null location from this station will still be passed to the client application.

If Alpha characters are encountered in a field specified as numeric, an error will be logged.

If a field required to contain information contains no information, and error will be logged.

Packets with no message payload are logged as errors.

Bill KC9XG

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

118. [aprssig] Re: IP Crashing us...

From: Guy Story <kc5goi@tapr.org>
Date: Fri, 2 Jun 2000 14:29:22 -0500 (CDT)
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Message-ID: <LYR842-88192-2000.06.02-20.28.41--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

that is correct. consider it a bandaid fix.

73,

Guy Story
KC5G0I
kc5goi@tapr.org
<http://www.kc5goi.net>

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

119. [aprssig] Re: [htapsr] Re: Contemplating purchasing TH-D7a(G)

From: Busch Thomas H CNIN <Busch_T@crane.navy.mil>
Date: Fri, 02 Jun 2000 14:18:20 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88193-2000.06.02-20.28.49--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I'm sorry, but didn't we decide this was not worthwhile for APRS, as repeater outputs are not allowed on 144.39?

> If you want the TM-D700 to transmit any packet it happens to hear, then you
> need to set it up as a cross-band repeater (just like you would for voice).
> Transmit from UHF on the TH-D7A like normal (with a normal RELAY,WIDEn-n
> path or whatever) and have the TM-D700 set up as a cross-band repeater.
> Then anything it hears on UHF will be transmitted on VHF and vice versa.
> That would be the way to really do it.

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

120. [aprssig] Sotrm surge

From: "Ray J. Vaughan" <ray@rayvaughan.com>
Date: Fri, 02 Jun 2000 21:30:45 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Message-ID: <LYR842-88194-2000.06.02-20.33.49--lyris.aprssid@lists.tapr.org>
Rendered body type: text/plain

I was just watching Discovery Channel News. There was a story about Hurricanes and the efforts to predict storm surge. There's a expert in New Orleans, Dr. Stone, I think, who is constructing a network of off-shore monitoring stations near LA. There are 3 so far. Looks like a platform on wood piers with a weather station, solar panels and a sea level sensor. They said the data is coming back on cell phones. Someone from Emergency Management said that even the 3 they have now WILL save lives.

Sounds like this guy could really use APRS technology. As he builds more, he'll be out of cell range. If someone in LA is into WX and APRS, you might want to try to find this guy. From the Discovery.com web site, it looks like it will air again at midnight.

Ray J. Vaughan, MS, CBTE, CERT
KD4BBM PG-7-15266
<http://www.rayvaughan.com/>
ray@rayvaughan.com
ray@2-way.com

You are currently subscribed to aprssid as: lyris.aprssid@lists.tapr.org
To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org

121. [aprssid] Back to 2.4.3....

From: Jim Duncan <ku0g@kcaprs.org>
Date: Fri, 02 Jun 2000 19:12:51 -0500
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Message-ID: <LYR842-88195-2000.06.02-20.36.37--lyris.aprssid@lists.tapr.org>
Rendered body type: text/plain

Well, I MAY have found out what the killer packet is but accident....

I just sent a Keplerian elements update bulletin from my mobile about 10 minutes ago. When I came into the house I had the dreaded c00000005 error popped up!

Has anyone else tried this?

What I suspect is that the format of the Keplerian elements MAY be the source of the offending packet....

Can anyone else confirm this???

--

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group, W0APR
First Alert Storm Team KMBC-TV9
[Mailto:ku0g@kcaprs.org](mailto:ku0g@kcaprs.org)
Webpage: <http://www.kcaprs.org>

You are currently subscribed to aprssid as: lyris.aprssid@lists.tapr.org
To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org

122. [aprssid] Rockwell GPR-450 info, no luck

From: "John B. Leonard, Jr." <jleonard@tbcnet.com>
Date: Fri, 2 Jun 2000 16:58:28 -0500
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Message-ID: <LYR842-88199-2000.06.02-20.39.13--lyris.aprssid@lists.tapr.org>
Rendered body type: text/plain

Well, the nice folks at Conexant referred me to Rockwell Collins, who referred me to a 1-800 # in Melbourne FL where I *might* be able to ORDER a manual for it. Of course the 1-800 # was a recording telling me the fax no. to send orders to...

Does anyone have a newsgroup or something dealing w/ GPS's where I can go.

This thing spits out perfectly good GGA and VTG sentences that I could use as a PIC-E tracker, but all the GPS info is at 9600 baud. All of the PIC-E programs are for 4800, I guess. And nobody around here has a C compiler to re-do the program for the PIC.

Maybe I should get a Rand McNally GPS. I heard they're good. It'll probably be a lot cheaper than this project is turning out.

b1

Barry Leonard
W9JBL

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

123. [aprssig] continuing

From: twallace@ccgov.org
Date: Fri, 2 Jun 2000 15:16:25 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88201-2000.06.02-20.42.14--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

This was from the buffered port.
Is it possible, that the clusters are getting "scrambled" in the buffer?

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

124. [aprssig] Re: Bad data crashing WinAPRS <LYR12366-88119-2000.06.02-12.15.09--kb2ici#amsat.org@lists.tapr.org>

From: Mark Sproul <kb2ici@amsat.org>
Date: Fri, 02 Jun 2000 21:34:24 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88202-2000.06.02-20.42.49--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

At 1:11 PM -0400 6/2/00, Tim Salo wrote:
>> Subject: [aprssig] Bad data crashing WinAPRS
>> From: twallace@ccgov.org
>> Date: Fri, 2 Jun 2000 12:49:20 -0400
>>
>> We need to find out the SOURCE of the bad data causing the UNHANDLE
>> EXCEPTIONS. ...
>
>In most other environments, it is the responsibility of the receiver
>(WinAPRS in this case) to respond gracefully to any packet that is
>received, no matter how ill-formed.
>
>In my opinion, any system that is touted for use in emergencies
>(as APRS often is) ought not be susceptible to relatively trivial
>denial-of-service attacks, such as intentionally sending malformed
>packets.

I agree with Tim, the software (in this case mine) should be bullet proof, the problem is, there keeps appearing new kinds of bullets. You write the code "thinking" you are accounting for all possibilities but you can never account for them all. If anyone can figure out what packets are causing it PLEASE let me know

BTW, Keith and I will not be in email contact next week.

Mark

Mark Sproul	
Software Engineer @ Assoc Press	Work: 609-860-7120
msproul@apmail.ap.org	Fax: 609-860-7129
kb2ici@amsat.org (either is OK)	

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

125. [aprssig] Re: IP Crashing us... <LYR12366-88159-2000.06.02-14.07.10--kb2ici#amsat.org@lists.tapr.org>

From: Mark Sproul <kb2ici@amsat.org>
Date: Fri, 02 Jun 2000 21:35:23 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88203-2000.06.02-20.42.56--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

At 4:49 PM -0400 6/2/00, David VanHorn wrote:

>-----BEGIN PGP SIGNED MESSAGE-----

>Hash: SHA1

>

>I'm trying it, but I think all we're seeing is that on a slower feed, it
>takes longer to hit.

>The buffer may contain some "poison pills" but they would have been present
>in the unbuffered stream too, unless there's specifically a problem with
>the buffering.

>

>

I have connected to the IP feed from 2 different machines and have not had
it crash yet. I sure wish I could see what the rest of you are seeing. If
I can reproduce it I can fix it 99% of the time.

Mark

Mark Sproul	
Software Engineer @ Assoc Press	Work: 609-860-7120
msproul@apmail.ap.org	Fax: 609-860-7129
kb2ici@amsat.org (either is OK)	

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

126. [aprssig] RE: WinAprs crashes.

From: Bill Diaz <billdiaz@megsinet.net>
Date: Fri, 2 Jun 2000 20:58:56 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88208-2000.06.02-21.01.54--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Chris,

AFilter should be running but not connected to the server.
Select the server and port you wish to connect to.

WinAprs should then be connected to AFilter on Port 3030.

AFilter will then attempt to connect to the server, and if
successful will pass packets to WinAprs according to the
settings in Afilter.

Read the accompanying doc files to make sure that you
have APRServe.txt set up properly for the WinAprs / AFilter
connection.

AFilter will pass bad packets to WinAprs under certain
conditions. If bad packets are originating within your
distance filter, I wouldn't be surprised if WinAprs encountered
an error condition.

Bill KC9XG

On Friday, June 02, 2000 5:25 PM, Chris Schwab [SMTP:1schwab1@tampabay.rr.com]
wrote:

> I'm hoping Bill or someone else can point me in the right direction..

>

> I've set up Afilter here, and it connects to the internet correctly (or so
> it seems).

>

> WinAPRS will connect to Afilter, but no packets get passed to WinAPRS from
> Afilter.

>

> I've unchecked all of the boxes in Afilter, which if I'm reading correct,
> should pass ALL packets (but with error checking) but nothing ever reaches
> WinAPRS.

Bill KC9XG

On Friday, June 02, 2000 2:54 PM, David A. Aitcheson [SMTP:cdj-intl@portal.nothingbutshell.net] wrote:
> All,
>
> Another difference that I am noticing is that 'second.aprs.net'
> is sending a ^M ([control] M) at the end of each line for the
> first few lines then starts sending the same signal at the
> beginning of each line. I am not seeing this when I look at
> 'www.aprs.net' which I did both observations from a x-term
> running on a unix (FreeBSD) platform on a Sun Sparc-20.
>
> I have that data captured to files if anyone would like to
> dissect it.
>
> Sorry this is short - the harmonic wants to go swimming at the
> pool and its "Mr. Mom's" turn to take her!
>
> 73
> David A. Aitcheson - KB3EFS
>
>
>
> ---
> You are currently subscribed to aprssig as: BILLDIAZ@MEGSINET.NET
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

128. [aprssig] Re: IP Crashing us...

<LYR12366-88159-2000.06.02-14.07.10--kb2ici#amsat.org@lists.tapr.org>

From: Bill Diaz <billdiaz@megsinet.net>
Date: Fri, 2 Jun 2000 21:05:52 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88221-2000.06.02-21.09.02--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Mark,

Download ErrorLog.txt from ftp://ftp.billdiaz.dynip.com/outgoing This contains many of the bad packets seen this morning.

Bill KC9XG

On Friday, June 02, 2000 8:35 PM, Mark Sproul [SMTP:kb2ici@amsat.org] wrote:
> At 4:49 PM -0400 6/2/00, David VanHorn wrote:
> >-----BEGIN PGP SIGNED MESSAGE-----
> >Hash: SHA1
> >
> >I'm trying it, but I think all we're seeing is that on a slower feed, it
> >takes longer to hit.
> >The buffer may contain some "poison pills" but they would have been present
> >in the unbuffered stream too, unless there's specifically a problem with
> >the buffering.
> >
> >
> >
> I have connected to the IP feed from 2 different machines and have not had
> it crash yet. I sure wish I could see what the rest of you are seeing. If
> I can reproduce it I can fix it 99% of the time.
>
>
> Mark
>
>
> _____
> Mark Sproul |
> Software Engineer @ Assoc Press |Work: 609-860-7120
> msproul@apmail.ap.org |Fax: 609-860-7129
> kb2ici@amsat.org (either is OK) |
> _____
>
>
>
> ---
> You are currently subscribed to aprssig as: BILLDIAZ@MEGSINET.NET

> To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org

You are currently subscribed to aprssid as: lyris.aprssid@tapr.org
To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org

129. [aprssid] Another buwwit....

From: Jim Duncan <ku0g@kcaprs.org>
Date: Fri, 02 Jun 2000 21:07:36 -0500
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Message-ID: <LYR842-88222-2000.06.02-21.10.31--lyris.aprssid#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Whoever __5ZZT-8 is seems to be continually having problems with garbled packets. I've gone through my station list and found many instances of this same suffix but all with various lead characters/digits.... He's been showing up as being in NW Kansas for the past several days...

--

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group, W0APR
First Alert Storm Team KMBC-TV9
[Mailto:ku0g@kcaprs.org](mailto:ku0g@kcaprs.org)
Webpage: <http://www.kcaprs.org>

You are currently subscribed to aprssid as: lyris.aprssid@tapr.org
To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org

130. [aprssid] AEA PK-12 Node Configuration

From: "MICHAEL GLENNON" <kb4jhu@arll.net>
Date: Fri, 2 Jun 2000 20:44:41 -0500
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Message-ID: <LYR842-88227-2000.06.02-21.25.54--lyris.aprssid#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Is there anyone out there that has a AEA PK-12 on the air as a APRS NODE?
How about a AEA PK-96?

I would like to get a printout of the configurations. Im trying to setup a new node here in Montgomery, AL and I have experience with Kantronics type TNC so Im a little confused with the AEA command set. Any help is appreciated. Please send to me directly at kb4jhu@arll.net

tnx

-Michael KB4JHU

Michael D. Glennon KB4JHU/AFA2DQ/DSO-CM D8CR
<http://www.qsl.net/kf4aze>

You are currently subscribed to aprssid as: lyris.aprssid@tapr.org
To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org

131. [aprssid] APRServe feed seems to have been cleaned up

From: Bill Diaz <billdiaz@megsinet.net>
Date: Fri, 2 Jun 2000 21:25:25 -0500
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Message-ID: <LYR842-88228-2000.06.02-21.28.26--lyris.aprssid#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The volumn of errors has dropped considerably in the last half hour or so.
I have not seen any more packets digipeated by N5IUT in that time period.

Is anyone still experiencing errors?

Bill KC9XG

You are currently subscribed to aprssid as: lyris.aprssid@tapr.org
To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org

132. [aprssid] Re: ui-view as Igate

From: Roger Barker <roger@peaksys.co.uk>
Date: Fri, 2 Jun 2000 23:03:37 +0100
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88230-2000.06.02-21.40.38--lyris.aprssi#tapr.org@lists.tapr.org>
Rendered body type: text/plain

In article <LYR1643-88120-2000.06.02-12.15.31--ROGER#PEAKSYS.CO.UK@lists.tapr.org>, Alex Pinheiro Machado Rodrigues <alexmac@tba.com.br> writes
>Hi sig.
>I'm looking for the instructions to start a Igate using ui-view, replacing
>Winaprs.
>Any sugestions?

It's all in the APRServe and related sections of the help. You can read it from the help index, or press F1 when you've got the "APRS Server Setup" dialogue open.

If you join the UI-View mailing list on eGroups, you'll find lots of users who are running gateways who will be able to help with any specific problems.

--
Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprssig as: lyris.aprssi#tapr.org
To unsubscribe send a blank email to leave-aprssi-842K@lists.tapr.org

133. [aprssig] Re: Palm Maps

From: John Zaruba Jr <jzaruba@snip.net>
Date: Fri, 02 Jun 2000 22:43:28 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88231-2000.06.02-21.46.25--lyris.aprssi#tapr.org@lists.tapr.org>
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

Hi John,

If your not running a Macintosh, your out of luck here. The only software for rolling your own maps is MacDLG, by Mike Musick (the author of PocketAPRS).

If you are using a Wintel platform, I might be able to do a map for you. The size needs to be fairly small (i.e. NOT the entire Republic of Texas!). Downloading all the DLG files from USGS can be time consuming, so if you need me to make one it could take a week or so.

Let me know if you need some assistance.

73 de John AA2BN
aa2bn@amsat.org

> From: John W Wilson <z004391b@bc.seflin.org>
> Date: Fri, 2 Jun 2000 20:43:13 -0400 (EDT)
> To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
> Subject: [aprssig] Palm Maps

>
> Does anyone know how I can make maps for the PalmAPRS? Thanks,
>
>

> John W. Wilson, KN4HX
> z004391b@bcfreenet.seflin.lib.fl.us
>
>
> ---
> You are currently subscribed to aprssig as: aa2bn@amsat.org
> To unsubscribe send a blank email to
> leave-aprssi-842K@lists.tapr.org
>
>

-----BEGIN PGP SIGNATURE-----
Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUB0ThwqWEYbMZ58nyVEQI9+wCfX2FIeRj6MsuJMGy4RVdGpbtNa9YAnRks

MtLLsvyT7Mkdd/eLCo3xMnwC
=g9EZ
-----END PGP SIGNATURE-----

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

134. [aprssig] Re: APRServe feed seems to have been cleaned up

From: "Ted Wallace" <twallace@ccgov.org>
Date: Fri, 2 Jun 2000 21:57:32
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88234-2000.06.02-22.00.20--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I did notice that, No crashes since 1800. BUT, the station I mentioned in an earlier post, I havent seen either.

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

135. [aprssig] Re: APRServe feed seems to have been cleaned up

From: Bill Diaz <billdiaz@megsinet.net>
Date: Fri, 2 Jun 2000 22:05:56 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88236-2000.06.02-22.08.54--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Ted,

I'm still seeing a few mangled packets but the volume has dropped considerably. We'll see if it picks up in the morning.

Bill KC9XG

On Friday, June 02, 2000 4:58 PM, Ted Wallace [SMTP:twallace@ccgov.org] wrote:

> I did notice that, No crashes since 1800. BUT, the station I mentioned in
> an earlier post, I havent seen either.

>

> ---

> You are currently subscribed to aprssig as: BILLDIAZ@MEGSINET.NET

> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

136. [aprssig] Re: APRServe feed seems to have been cleaned up

From: Ray Vaughan <ray@rayvaughan.com>
Date: Fri, 02 Jun 2000 23:19:24 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88237-2000.06.02-22.22.16--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

How about opening a telnet session and logging the data. If you happen to see a crash, you could go to the log to see what lead up to it. I'm doing that right now on first.aprs.net:1314, but of course, no problem while I'm looking.

Just wondering... can a telnet log be played back to WinAPRS to reproduce the error if I do happen to catch one?

At 10:05 PM 6/2/00 -0500, you wrote:

>Ted,

> I'm still seeing a few mangled packets but the volume has dropped

>considerably. We'll see if it picks up in the morning.

Ray J. Vaughan, MS, CBTE, CERT
KD4BBM PG-7-15266
<http://www.rayvaughan.com/>
ray@rayvaughan.com
ray@2-way.com

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

137. [aprssig] BUILDING AN GPS ANTENNA ?

From: "Alex Pinheiro Machado Rodrigues" <alexmac@tba.com.br>
Date: Fri, 2 Jun 2000 18:09:00 -0300
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88238-2000.06.02-22.22.26--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi sig.
I'm looking for some instructions how to made a GPS Antenna to install in my car (pt2vhf-7)
Anybody can help me?
Thanks.

Alex, PT2VHF

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

138. [aprssig] Re: BUILDING AN GPS ANTENNA ?

From: Bob Boehm <n8exf@juno.com>
Date: Fri, 2 Jun 2000 23:36:24 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: aprssig@lists.tapr.org
Message-ID: <LYR842-88241-2000.06.02-22.39.50--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Alex,
I just finished building a patch antenna from the plans in QST (OCT 95 pg 44). I used double sided PC board [I usually have sheets of the stuff laying around - it is my favorite project box building material]. If you need the plans, let me know and I can scan it and email them to you - preferred format would be .PDF, but could send as .txt or .jpg etc.

Bob N8EXF

On Fri, 2 Jun 2000 18:09:00 -0300 "Alex Pinheiro Machado Rodrigues" <alexmac@tba.com.br> writes:

> Hi sig.
> I'm looking for some instructions how to made a GPS Antenna to
> install in my
> car (pt2vhf-7)
> Anybody can help me?
> Thanks.
>
> Alex, PT2VHF
>
>
>
> ---
> You are currently subscribed to aprssig as: N8EXF@JUNO.COM
> To unsubscribe send a blank email to
> leave-aprssig-842K@lists.tapr.org
>

73 de Bob, N8EXF
<http://qsy.to/N8EXF>

See you the Hamvention. I'll be in spaces #110/111. Stop by for a chat, a soft place to sit and maybe a cold ice water.

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139. [aprssig] Re: WinAPRS 2.4.6 released

From: Powerwerx <kjm@powerwerx.com>
Date: Fri, 02 Jun 2000 20:43:11 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88243-2000.06.02-22.48.46--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

With this new release I just ordered PM 4.0.

Do we need an .OCX control for this new version of PM or will the old version work. my feeling is that we need a new control. Is there any documentation where to get it?

Also the Orange county Sheriff Search and Rescue group is using a program called TOPO!GPS. Has anyone tried to interface this mapping program.

73, ken, KM6YH

----- Original Message -----

From: "Mark Sproul" <kb2ici@amsat.org>
To: "TAPR APRS Special Interest Group" <>
Sent: Thursday, June 01, 2000 6:07 AM
Subject: [aprssig] WinAPRS 2.4.6 released

I have put LOTS of work into the stability of WinAPRS taking into account all of the feedback I have gotten from the sig. I hope this version works better.

Mark

WinAPRS Version 2.4.6 - Jun 1, 2000
MacAPRS Version 3.4.6
X-APRS Version 0.0.6

LOTS OF WORK ON WINDOWS STABILITY
Finished support for UTM format maps
Fixed DX Cluster message parsing so no more messages from "de" show up in the msg list
Fixed bug in display of station tracks
Fixed some message sending bugs
Serial I/O working on X-APRS
Dialogs working on X-APRS
Fixed bug in VHF data bit setting (was hard coded to 8 bits)
Fixed a few bugs associated with the Kenwood radios such as properly decoding the ambiguity values.

Windows Version

Rutgers site at <ftp://aprs.rutgers.edu/pub/hamradio/APRS/WinAPRS/>
TAPR site at <ftp://ftp.tapr.org/aprssig/winstuff/WinAPRS/>

Mark Sproul	
Software Engineer @ Assoc Press	Work: 609-860-7120
msproul@apmail.ap.org	Fax: 609-860-7129
kb2ici@amsat.org (either is OK)	

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140. [aprssig] repeated packets

From: Ray Vaughan <ray@rayvaughan.com>
Date: Fri, 02 Jun 2000 23:52:00 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88244-2000.06.02-22.54.51--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I've been watching the stream in Telnet. (Fun Friday night?). I'm on first.aprs.net:1314 using WinAPRS 2.4.6. I'm watching on telnet on another computer.

I see a lot of what look like totally repeated packets. I use this one only as an example since it happens to be one of the one I have in my stations.txt file as IGATE. The problem is, it seems like I'm transmitting it once each time. I'm seeing really long transmissions when one of these repeated groups comes by. Shouldn't I only send one?

```
KC4ZPL-14>APRX46,AA4QI-1*,WIDE,WIDE6-6:@030339z2942.09N/08119.63WuGGA/NUL/APRS*/
good GGA FIX/A=000095
KC4ZPL-14>APRX46,AA4QI-1*,WIDE,WIDE6-6:@030339z2942.09N/08119.63WuGGA/NUL/APRS*/
good GGA FIX/A=000095
KC4ZPL-14>APRX46,AA4QI-1*,WIDE,WIDE6-6:@030339z2942.09N/08119.63WuGGA/NUL/APRS*/
good GGA FIX/A=000095
KC4ZPL-14>APRX46,AA4QI-1*,WIDE,WIDE6-6:@030339z2942.09N/08119.63WuGGA/NUL/APRS*/
good GGA FIX/A=000095
```

Ray J. Vaughan, MS, CBTE, CERT
KD4BBM PG-7-15266
<http://www.rayvaughan.com/>
ray@rayvaughan.com
ray@2-way.com

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141. [aprssig] new version AGWPE posted (v2000.60)

From: "Bill Kearns" <billk@inland.net>
Date: Fri, 2 Jun 2000 20:50:39 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88245-2000.06.02-22.56.56--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

download it here:

<http://www.elcom.gr/sv2agw/>

AGWPE fans,

for a while now, i have been taking notes and putting together an 'agw check list' to make installing, setting up and configuring agwpe somewhat easier. (i know of several people who have never had it work for them....)
it is too big to post here on the sig... so anyone interested can send me a private email and ill send it along to you.
this is a 'work in progress' and what i am trying to do is come up with a 'bullet proof' set of instructions that almost anyone can use as a guide to get agwpe up and running with winaprs.

thnx, bill wb6jar

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

142. [aprssig] WinAPRS Ver 246 D700 Position errors

From: "G. W. Hester" <ke7ku@arri.net>
Date: Fri, 2 Jun 2000 23:37:6
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88250-2000.06.02-23.39.50--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

WinAPRS Ver 246 has position data errors for D700 radios, so stations running D700's have the longitude reported as 14 instead of 114 etc. In essence ver 246 is dropping the first digit of the longitude data. It is now impossible to track mobiles running a D700 radio with the erroneous data created by ver 246. The solution is to run ver 243 or 244 as the icon goes away with ver 245 when you zoom in on the map.

This should make all of us Kenwood owners happy!

Wayne
ke7ku@arri.net
Southwest Arizona APRS Group

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143. [aprssig] Re: APRServe feed seems to have been cleaned up

From: Robbie Robertson <mwrrobertson@mediaone.net>
Date: Fri, 02 Jun 2000 23:51:03 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Message-ID: <LYR842-88251-2000.06.02-23.52.43--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Bill Diaz wrote:

>
> The volumn of errors has dropped considerably in the last half hour or so.
> I have not seen any more packets digipeated by N5IUT in that time period.
>
> Is anyone still experiencing errors?
>
> Bill KC9XG
>

Bill es all,

I have not had a crash in 4 hours from port
www.aprs.net:23

Robbie

--

Are we having fun yet?
73 - Robbie - WA9INF
***** --...-- *****

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

144. [aprssig] Re: repeated packets

From: David VanHorn <dvanhorn@cedar.net>
Date: Fri, 02 Jun 2000 23:41:17 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88252-2000.06.02-23.58.45--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

>I see a lot of what look like totally repeated packets. I use this one
only as an
> example since it happens to be one of the one I have in my stations.txt
file as >IGATE. The problem is, it seems like I'm transmitting it once
each time. I'm seeing >really long transmissions when one of these
repeated groups comes by. Shouldn't I >only send one?

I've noticed this too, and it seems to come (sorry guys) from the truckers.
I've seen it on VA3DRV, sometimes for the better part of an hour, I'm
getting the same message, in groups of 3-5 over and over every couple minutes.
Same setup here, Igating them out to RF

- - -

Are you an ISP? Tired of spam?
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Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----
Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUB0TiojIFlGDz1l6VWEQIKcQCgz2vxn3DbsoLh0tFd6ZVP65ssW6cAoJgx
dF8UsL+L5s+0hdD012TV1/Gj
=5loy
-----END PGP SIGNATURE-----

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145. [aprssig] Re: repeated packets

From: "Dick Stanich" <dstanic@c2i2.com>
Date: Sat, 3 Jun 2000 1:14:35
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88278-2000.06.03-01.17.27--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> I see a lot of what look like totally repeated packets. I use this one only as an example since it happens to be one of the one I have in my stations.txt file as IGATE. The problem is, it seems like I'm transmitting it once each time. I'm seeing really long transmissions when one of these repeated groups comes by. Shouldn't I only send one?

>

> KC4ZPL-14>APRX46,AA4QI-1*,WIDE,WIDE6-6:@030339z2942.09N/08119.63WuGGA/NUL/APRS*/
> good GGA FIX/A=000095
> KC4ZPL-14>APRX46,AA4QI-1*,WIDE,WIDE6-6:@030339z2942.09N/08119.63WuGGA/NUL/APRS*/
> good GGA FIX/A=000095
> KC4ZPL-14>APRX46,AA4QI-1*,WIDE,WIDE6-6:@030339z2942.09N/08119.63WuGGA/NUL/APRS*/
> good GGA FIX/A=000095

Well now, first you can thank AA4QI-1. You are running WIDE,WIDE6-6. QI-1 is simply following your instruction. Run TRACE,TRACE6-6 if the digi understands TRACE, and you'll probably see all the digis in your path. If we ran 6-6 in our area, somebody would be shot. Igates should be area specific... maybe a single WIDE or TRACE. Looks like you are getting dups because of digi looping. Try changing the unproto path to something less than 7 hops. Yikes!

Dick, KB7ZVA
Southwest Arizona APRS Group

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146. [aprssig] RE: 2.46 still bad

From: Ian Wade <Ian.Wade@care4free.net>
Date: Sat, 3 Jun 2000 07:20:11 +0100
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88279-2000.06.03-01.23.53--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

In article <LYR14778-88123-2000.06.02-12.19.48--Ian.Wade#care4free.net@lists.tapr.org>, Bill Diaz <billdiaz@megsinet.net> writes

>The following is a heavily edited listing of errors reported by AFilter
>recently.

>

>Header error WX4GSO-2>APW228,WA4BWB-3*,WIDE6-3 <UI>:>041508 WX4GSO WX
>MONITORING NETWORK CENTRAL NC

[etc, snipped]

Hi Bill. As you said, most of the errors you reported contain some flavor of <UI> in the header. This probably emanates from an AEA TNC, and, although it's not very sociable, I wouldn't class this as an error. Same goes for TNC timestamps in the header -- probably a hanging offense, but not an error.

I put your packet listing through my APRS Decoder (APRSdec), which handles these OK. For example, a packet with <UI> in the header:

Record #8
KA4U>APZ031,WA4BWB-3*,WIDE6 <UI>:=3532. N/08106. WxXASTIR-Linux de John ka4u@vnet.net
APRS Data Type= Posit w/o time. With APRS
**AMBIGUOUS POSITION. Opposite corners of bounding box:
NW Corner: Lat= 35 deg 32.99 min N Long= 81 deg 06.99 min W
SE Corner: Lat= 35 deg 32.00 min N Long= 81 deg 06.00 min W
Icon= X-APRS Unix Overlay= (none)

Example with TNC timestamp (you only provided a fragment, so I added

a dummy callsign path):

```
-----
Record #63
dummy-10*>S32U6T,WIDE5-2 [00/22/00 03:03:35]:'r;A1 K\
TNC Timestamp= 00/22/00 03:03:35
APRS Data Type= Current Mic-E data
Radio= Kenwood TM-D700
Message Type= /M3/Returning
Lat= 33 deg 25.64 min N Long= 86 deg 31.37 min W
Icon= Kenwood Overlay= (none)
Course= (Indeterminate) deg Speed= 0 knots (0.0 mph 0.0 kph 0.0 m/s)
-----
```

Here FYI is a fragment of the APRSdec code that gracefully handles these. The tricky bit is discovering which colon indicates the start of the data payload. You (and other people writing software that receives APRS packets) may find this useful. At the top, "\$line" contains the output line from the TNC.

```
~~~~~
# Get path. It may contain TNC date and/or timestamp and/or UI packet type, all
# of which need to be filtered out.
#
# AEA format: 'dd-mon-yy hh:mm:ss src>digi>dst [UI]:' (or (UI) or <UI>)
# TNC2 format: 'src>dst,digi [date_time_in_any_format]: <<UI>>:'

$src_call = substr($line, 0, index($line, ">"));

if (($i = rindex($src_call, " ") + 1) > 0) {$src_call = substr($src_call, $i);}
# remove AEA date/time

if ($i > 0)
{
    # AEA timestamp
    $tnctime = substr($line, 0, $i-1);
    print OUTPUT (" TNC Timestamp= $tnctime\n");
}

$line = substr($line, $i);

$colon = index($line, ":");
$space = index($line, " ");

if ($space > 0)
{
    if ($space < $colon)
    {
        # remove other junk downstream from first space
        $path = substr($line, 0, $space);
        if (($i = substr($line, $space+1, 1)) eq "[")
        {
            # beginning of AEA [UI] or TNC2 [timestamp]
            $i = $space + 1;
            $j = index($line, "]", $space+1);

            $tnctime = substr($line, $i+1, $j-$i-1); # TNC2 timestamp if no UI
            if (index($tnctime, "UI") < 0) {print OUTPUT (" TNC Timestamp= $tnctime\n");}

            if (substr($line, $j+1, 2) eq ": ")
            {
                # remove more junk following TNC2 [timestamp]
                $colon = index($line, ":", $j+2);
            }
            else
            {
                $colon = $j + 1;
            }
        }
    }
}
else
{
    $path = substr($line, 0, $colon);
}

# At this point, $colon is at the start of the Information field, ready for later.
~~~~~
```

However at present, APRSdec doesn't properly handle the strange cases of headers containing a broken <UI element (although it does provide a warning about an unexpected non-zero APRS digi path in the destination address):

```
-----
Record #25
KJ7AZ-2>KC7ZRZU-2* <UI,APW246,KJ7AZ-5:=4147.25N/10714.56WIPHG2150/WinAPRS 2.4.3
**WARNING: Non-zero APRS Digipeater Path= WIDE2-2
APRS Data Type= Posit w/o time. With APRS
Lat= 41 deg 47.25 min N Long= 107 deg 14.56 min W
Icon= TCP/IP Overlay= (none)
Power= 4 watts Height above average terrain= 20 feet (6.1 meters)
Gain= 5 dB Range Circle= 5.6 miles (9.0 km) Directivity= Omni-directional
-----
```

Thanks for supplying your list of bad packets. It was very helpful and has given me more food for thought for improving APRSdec!

73
Ian, G3NRW
Technical Editor, APRS Protocol Specification
***** Third draft now available *****

```
--
+-----+
| APRS on 144.800 [I09ISX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

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147. [aprssig] NiMH a good thing?

From: "Scott-KC5JGV" <kc5jgv@bobcats2.oursc.k12.ar.us>
Date: Sat, 3 Jun 2000 01:24:28 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88281-2000.06.03-01.29.23--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I'm not too sure of the idea of replacing the D7's battery with a NiMH is such a good idea. The D7 get really hot when used, and I suspect that the exsisting battery works as a heat sink of sorts. NiMH batteries, at least the cell phone ones that I've used, create a LOT of heat when discharging, almost to the point that you don't want to pick it up. So with the D7 creating heat and the NiMH battery creating heat, isn't that going to possibly overheat the D7? I'm staying away from the NiMH batteries for a D7 for right now.

73

J. Scott Ratchford

Amateur Radio Callsign - KC5JGV

APRS Computers
www.geocities.com/jsratchford/citadel_1.htm

New Web Site
www.aprshelp.com (coming soon!)

Member Calf Creek Lodge #426 Snowball, AR
(That's between Loafer's Glory and Point Peter!)

Searcy County Sheriff's Office

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148. [aprssig] Re: WinAPRS Ver 246 D700 Position errors

From: Ian Wade <Ian.Wade@care4free.net>
Date: Sat, 3 Jun 2000 07:27:01 +0100
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88282-2000.06.03-01.30.38--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

In article <LYR14778-88250-2000.06.02-23.39.50--Ian.Wade#care4free.net@lists.tapr.org>, G. W. Hester <ke7ku@arrrl.net> writes
>WinAPRS Ver 246 has position data errors for D700 radios, so stations
>running D700's have the longitude reported as 14 instead of 114 etc. In
>essence ver 246 is dropping the first digit of the longitude data.

It could be ignoring the +100 degree offset encoded in the destination address. Can you provide an example of one of these packets?

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

***** Third draft now available *****

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

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149. [aprssig] Re: APRServe feed seems to have been cleaned up

From: "Dick Stanich" <dstanic@c2i2.com>
Date: Sat, 3 Jun 2000 1:34:46
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88283-2000.06.03-01.37.32--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> Is anyone still experiencing errors?
>
> Bill KC9XG

(*)Is this a trick question? hi hi

Would you like to see MY error log? The fun part are the ones that have Email address attached to their errors. Did you notice those?

I see data errors from Texas, Nevada, and even one lonely Montana station. Can't copy the callsigns because the headers are bad. Like stations running a txdelay of 10msec or less. Is a partial packet better than no packet?
(*)

Dick, KB7ZVA
SWAAG

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150. [aprssig] Re: WinAPRS Ver 246 D700 Position errors

From: "Dick Stanich" <dstanic@c2i2.com>
Date: Sat, 3 Jun 2000 1:45:22
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88284-2000.06.03-01.48.10--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> It could be ignoring the +100 degree offset encoded in the destination
> address. Can you provide an example of one of these packets?
>

Can anyone read the encoded packets from a Kenwood D700? Winaprs converts the packets, normally. However, Winaprs246 has a pesty bug that is dropping one of the numbers in the longitude, like Wayne said. It is being fixed. Say hi to John, MB7USA in Liverpool.

Dick, KB7ZVA
SWAAG

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151. [aprssig] Re: WinAPRS Ver 246 D700 Position errors

From: Ian Wade <Ian.Wade@care4free.net>
Date: Sat, 3 Jun 2000 08:41:00 +0100
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88286-2000.06.03-02.44.43--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

In article <LYR14778-88284-2000.06.03-01.48.10--Ian.Wade#care4free.net@lists.tapr.org>, Dick Stanich <dstanic@c2i2.com> writes
>> It could be ignoring the +100 degree offset encoded in the destination
>> address. Can you provide an example of one of these packets?
>>
>
>Can anyone read the encoded packets from a Kenwood D700?

Hi Dick. If that's a general question, take a look at APRSdec, at
<http://www.netro.co.uk/aprs.htm>

APRSdec decodes all the APRS packet types into plain English, taking the input in IGate output format. The current version at <http://www.netro.co.uk/aprs.htm> doesn't handle the mangled headers we've seen lately (I've fixed that now, and will be releasing the update asap), but it should decode D700 and other Mic-E formatted packets without problem.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

***** Third draft now available *****

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

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152. [aprssig] Other Versions?

From: "Scott-KC5JGV" <kc5jgv@bobcats2.oursc.k12.ar.us>
Date: Sat, 3 Jun 2000 04:48:25 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88296-2000.06.03-05.06.08--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Is there a Linux version of APRS?

How about X-APRS?

I don't use linux so I'm in the dark about these version, which may be the same thing as far as I know.

Can the authors please contact me directly at: kc5jgv@arrrl.net .

Thanks

Scott

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153. [aprssig] RE: 2.46 still bad

From: Bill Diaz <billdiaz@megsinet.net>
Date: Sat, 3 Jun 2000 07:54:46 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88308-2000.06.03-07.57.45--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Ian,

WinAprs 2.4.6 is creating unhandled exceptions and many of us believe that bad packets are the source of the errors. Decoding these packets with APRSdec

successfully may not prove anything. Obviously your code handles most of the bad packets, but WinAprs does not.

Headers that include timestamps, <UI> etc. provide no useful information, are a waste of bandwidth, and may cause some applications to fail or misinterpret the packet.

The presence of a timestamp in a header APPEARED to cause a station to be mislocated by several thousand miles, on repeated occasions. The packets in question appeared to be comprised of data from 2 separate packets. Once the timestamp was removed from the IGATE header (by changing the TNC configuration) this was no longer reported. Since the Timestamp contains a colon, it is possible that an application could interpret this as the end of the header or the start of the payload. Timestamps provide no useful information etc.....

Does the APRS specification require Timestamps or <UI> in the header. No. If a header contains information not in the spec, then it is not APRS compliant. Non-Compliant packets should not be passed by any APRS compliant station IMO.

At least one station is occasionally including [invalid] instead of callsigns in the header.

Several stations are placing random garbage characters in virtually every packet passed to APRServe. The garbage appears in the header and payload. Very often the originating callsign is mangled. The garbage characters can include control characters.

Some trackers are mangling NMEA location messages by placing random garbage characters in the string. Some applications may encounter exceptions when attempting to convert an expected numeric string to a numeric value when the numeric field contains non-numeric characters.

Applications that do not trap exceptions reported by the operating system will fail. Yes, this is the fault of the application. However, non-compliant packets should be eliminated at the source. IGATES should detect malformed packets and not propagate the errors throughout the network. IGATES are the ideal place to eliminate garbage. Unfortunately, many IGATES pass this garbage, and some even create more garbage.

The mangled and non-compliant packets can affect stations receiving these packets by RF as well. This is less likely because the volume of data is considerably less, and the local RF network may not contain mangled packets. However, local IGATES can pollute the local network by passing mangled packets.

APRS is becoming extremely popular and the number of stations is increasing dramatically. In many areas, the local networks are overloaded. Bad and non-compliant packets provide no useful information, may cause applications to fail, and waste extremely valuable bandwidth. The inclusion of non-essential or non-compliant information in headers benefits no one. We should all try to eliminate non-essential information in headers and bad packets in general.

Bill KC9XG

On Saturday, June 03, 2000 1:20 AM, Ian Wade [SMTP:Ian.Wade@care4free.net] wrote:

```
> In article <LYR14778-88123-2000.06.02-12.19.48--
> Ian.Wade#care4free.net@lists.tapr.org>, Bill
> Diaz <billdiaz@megsinet.net> writes
>
> >The following is a heavily edited listing of errors reported by AFilter
> >recently.
> >
> >Header error WX4G50-2>APW228,WA4BWB-3*,WIDE6-3 <UI>:>041508 WX4G50 WX
> >MONITORING NETWORK CENTRAL NC
>
> [etc, snipped]
>
> Hi Bill. As you said, most of the errors you reported contain some
> flavor of <UI> in the header. This probably emanates from an AEA TNC,
> and, although it's not very sociable, I wouldn't class this as an error.
> Same goes for TNC timestamps in the header -- probably a hanging offense,
> but not an error.
>
> I put your packet listing through my APRS Decoder (APRSdec), which
> handles these OK. For example, a packet with <UI> in the header:
>
> -----
```

```

> Record #8
> KA4U>APZ031,WA4BWB-3*,WIDE6 <UI>:=3532. N/08106. WxXASTIR-Linux de John
> ka4u@vnet.net
> APRS Data Type= Posit w/o time. With APRS
> **AMBIGUOUS POSITION. Opposite corners of bounding box:
> NW Corner: Lat= 35 deg 32.99 min N Long= 81 deg 06.99 min W
> SE Corner: Lat= 35 deg 32.00 min N Long= 81 deg 06.00 min W
> Icon= X-APRS Unix Overlay= (none)
>
> -----
>
> Example with TNC timestamp (you only provided a fragment, so I added
> a dummy callsign path):
>
> -----
> Record #63
> dummy-10*>S32U6T,WIDE5-2 [00/22/00 03:03:35]:'r;A1 K\]
> TNC Timestamp= 00/22/00 03:03:35
> APRS Data Type= Current Mic-E data
> Radio= Kenwood TM-D700
> Message Type= /M3/Returning
> Lat= 33 deg 25.64 min N Long= 86 deg 31.37 min W
> Icon= Kenwood Overlay= (none)
> Course= (Indeterminate) deg Speed= 0 knots (0.0 mph 0.0 kph 0.0 m/s)
>
> -----
>
> Here FYI is a fragment of the APRSdec code that gracefully handles these.
> The tricky bit is discovering which colon indicates the start of the data
> payload. You (and other people writing software that receives APRS packets)
> may find this useful. At the top, "$line" contains the output line from the
> TNC.
>
>
>
~~~~~
> # Get path. It may contain TNC date and/or timestamp and/or UI packet type,
> all
> # of which need to be filtered out.
> #
> # AEA format: 'dd-mon-yy hh:mm:ss src>digi>dst [UI]:' (or (UI) or <UI>)
> # TNC2 format: 'src>dst,digi [date_time_in_any_format]: <<UI>:'
>
> $src_call = substr($line, 0, index($line, ">"));
>
> if (($i = rindex($src_call, " ") + 1) > 0) {$src_call = substr($src_call,
> $i);}
>
> # remove AEA date/time
>
> if ($i > 0)
> {
> # AEA timestamp
> $tnc_time = substr($line, 0, $i-1);
> print OUTPUT (" TNC Timestamp= $tnc_time\n");
> }
>
> $line = substr($line, $i);
>
> $colon = index($line, ":");
> $space = index($line, " ");
>
> if ($space > 0)
> {
> if ($space < $colon)
> {
> # remove other junk downstream
> from first space
> $path = substr($line, 0, $space);
> if (($i = substr($line, $space+1, 1)) eq "[")
> {
> # beginning of AEA [UI] or TNC2
> [timestamp]
> $i = $space + 1;
> $j = index($line, "]", $space+1);
>
> $tnc_time = substr($line, $i+1, $j-$i-1); # TNC2 timestamp if no UI
> if (index($tnc_time, "UI") < 0) {print OUTPUT (" TNC Timestamp=
> $tnc_time\n");}
>
> if (substr($line, $j+1, 2) eq ": ")

```

```

>         {                                     # remove more junk following
>         TNC2 [timestamp]
>         $colon = index($line, ":", $j+2);
>         }
>     else
>     {
>         $colon = $j + 1;
>     }
> }
> }
> else
> {
>     $path = substr($line, 0, $colon);
> }
>
> # At this point, $colon is at the start of the Information field, ready for
> later.
>
>
~~~~~
> ~~~~~
>
>
> However at present, APRSdec doesn't properly handle the strange cases of
> headers containing a broken <UI element (although it does provide a warning
> about an unexpected non-zero APRS digi path in the destination address):
>
> -----
> Record #25
> KJ7AZ-2>KC7ZR-2* <UI,APW246,KJ7AZ-5:=4147.25N/10714.56WIPHG2150/WinAPRS
2.4.3
>
> **WARNING: Non-zero APRS Digipeater Path= WIDE2-2
> APRS Data Type= Posit w/o time. With APRS
> Lat= 41 deg 47.25 min N Long= 107 deg 14.56 min W
> Icon= TCP/IP Overlay= (none)
> Power= 4 watts Height above average terrain= 20 feet (6.1 meters)
> Gain= 5 dB Range Circle= 5.6 miles (9.0 km) Directivity= Omni-
> directional
>
> -----
>
>
>
> Thanks for supplying your list of bad packets. It was very helpful and
> has given me more food for thought for improving APRSdec!
>
>
> 73
> Ian, G3NRW
> Technical Editor, APRS Protocol Specification
>
> ***** Third draft now available *****
> --
> +-----+
> | APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
> | email: g3nrw@arrrl.net |
> | |
> | APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
> | APRS DECODER: http://www.netro.co.uk/aprs.htm |
> +-----+
>
> ---
> You are currently subscribed to aprssig as: BILLDIAZ@MEGSINET.NET
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
>
>
---
You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

```

154. [aprssig] Re: New AFilter version 1.1.4

```

From: "bob" <w2g3zfj@unix.asb.com>
Date: Sat, 3 Jun 2000 09:16:50 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88309-2000.06.03-08.21.01--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Bill

```

Is it possible to use AFILTER with a proxy server?

I set up the aserve.txt file as in winaprs with the proxie statement but it doesn't seem to connect.

73 de bob
w2/g3zfj

-----Original Message-----

From: Bill Diaz <billdiaz@megsinet.net>
To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Date: Friday, June 02, 2000 21:39
Subject: [aprssig] New AFilter version 1.1.4

>AFilter 1.1.4 is available for download at
>ftp://ftp.billdiaz.dynip.com/outgoing Bandwidth is limited, and ftp is
only
>available when I am online.
>
>AFilter now allows the user to view, and edit text files. This feature can
be
>used to view ErrorLog.txt while an AFilter session is active.
>
>I have also posted ErrorLog.txt. This file contains many of the errors
logged
>by AFilter 1.1.4 during a short time period this morning. I will post new
>ErrorLog files to the ftp site as time permits.
>
>AFilter does not catch all errors. It will log certain packets as errors,
but
>may, under certain conditions pass the original packet to a client
application.
>
>
>A new error category, Header errors has been added in 1.1.4. Headers that
>contain timestamps or variants of <UI will be logged as errors.
>
>
>Partial listing of error conditions :
>
>NMEA strings with bad checksums. If no checksum is present this is not
>considered an error.
>
>\$GPRMC strings that contain V, indicating an invalid location.
>
>NULL location packets. Any APRS packet that has a location of
0000.00,00000.00
>will be logged as an error when distance filtering is on. This includes
Mic-E,
>and compressed locations. If invalid characters are found in a location
field,
>it will set location to NULL or 0,0. If a station previously passed the
>distance filter, a null location from this station will still be passed to
the
>client application.
>
>If Alpha characters are encountered in a field specified as numeric, an
error
>will be logged.
>
>If a field required to contain information contains no information, and
error
>will be logged.
>
>Packets with no message payload are logged as errors.
>
>
>Bill KC9XG
>
>---
>You are currently subscribed to aprssig as: W2G3ZFJ@UNIX.ASB.COM
>To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
>
>

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

155. [aprssig] RE: 2.46 still bad

From: Ian Wade <Ian.Wade@care4free.net>
Date: Sat, 3 Jun 2000 14:26:30 +0100
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88310-2000.06.03-08.34.33--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

In article <01BFCD30.FE7A1080.billdiaz@megsinet.net>, Bill Diaz
<billdiaz@megsinet.net> writes
>Ian,
> WinAprs 2.4.6 is creating unhandled exceptions and many of us believe that
>bad packets are the source of the errors. Decoding these packets with APRSdec
>successfully may not prove anything. Obviously your code handles most of the
>bad packets, but WinAprs does not.
>
>Headers that include timestamps, <UI> etc. provide no useful information, are a
>waste of bandwidth, and may cause some applications to fail or misinterpret the
>packet.
>

[a few more paragraphs of good sense snipped]

Bill, what more can I say. I agree with you 100%. In fact, although
APRSdec will handle things like <UI> and TNC timestamps in headers, I
have now decided to flag these as warnings, because (as you rightly say)
they shouldn't really be there.

(Incidentally, Roger Barker's UI-View happily ignores <UI> and TNC
timestamps in headers, so at least one person got it right :-))

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

***** Third draft now available *****

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
|                                     email: g3nrw@arrl.net |
|                                     |                     |
| APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER:        http://www.netro.co.uk/aprs.htm |
+-----+
```

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

156. [aprssig] RE: New AFilter version 1.1.4

From: Bill Diaz <billdiaz@megsinet.net>
Date: Sat, 3 Jun 2000 08:35:32 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88312-2000.06.03-08.38.27--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Bob,

I haven't tried AFilter with a proxy. Not all proxy are equal, and settings
and results may vary.

However, AFilter reads APRServe.txt to determine what servers can be accessed.

You should try placing the proxy address and port in this file. Select the
proxy in AFilter and then see if your APRS application can connect to APRServe
thru AFilter and the proxy.

Bill KC9XG

On Saturday, June 03, 2000 8:17 AM, bob [SMTP:w2g3zfej@unix.asb.com] wrote:

> Hi Bill

>

> Is it possible to use AFILTER with a proxy server?

>

> I set up the aserve.txt file as in winaprs with the proxie statement but it
> doesn't seem to connect.

>

> 73 de bob

```

> w2/g3zfj
>
>
> -----Original Message-----
> From: Bill Diaz <billdiaz@megsinet.net>
> To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
> Date: Friday, June 02, 2000 21:39
> Subject: [aprssig] New AFilter version 1.1.4
>
>
> >AFilter 1.1.4 is available for download at
> >ftp://ftp.billdiaz.dynip.com/outgoing Bandwidth is limited, and ftp is
> >only
> >available when I am online.
> >
> >AFilter now allows the user to view, and edit text files. This feature can
> >be
> >used to view ErrorLog.txt while an AFilter session is active.
> >
> >I have also posted ErrorLog.txt. This file contains many of the errors
> >logged
> >by AFilter 1.1.4 during a short time period this morning. I will post new
> >ErrorLog files to the ftp site as time permits.
> >
> >AFilter does not catch all errors. It will log certain packets as errors,
> >but
> >may, under certain conditions pass the original packet to a client
> >application.
> >
> >
> >A new error category, Header errors has been added in 1.1.4. Headers that
> >contain timestamps or variants of <UI will be logged as errors.
> >
> >
> >Partial listing of error conditions :
> >
> >NMEA strings with bad checksums. If no checksum is present this is not
> >considered an error.
> >
> >$GPRMC strings that contain V, indicating an invalid location.
> >
> >NULL location packets. Any APRS packet that has a location of
> >0000.00,00000.00
> >will be logged as an error when distance filtering is on. This includes
> >Mic-E,
> >and compressed locations. If invalid characters are found in a location
> >field,
> >it will set location to NULL or 0,0. If a station previously passed the
> >distance filter, a null location from this station will still be passed to
> >the
> >client application.
> >
> >
> >If Alpha characters are encountered in a field specified as numeric, an
> >error
> >will be logged.
> >
> >
> >If a field required to contain information contains no information, and
> >error
> >will be logged.
> >
> >
> >Packets with no message payload are logged as errors.
> >
> >
> >Bill KC9XG
> >
> >---
> >You are currently subscribed to aprssig as: W2G3ZFJ@UNIX.ASB.COM
> >To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
> >
> >
> >
---
You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

```

157. [aprssig] AFilter bugs

From: Bill Diaz <billdiaz@megsinet.net>
 Date: Sat, 3 Jun 2000 09:11:24 -0500

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88313-2000.06.03-09.14.15--lyris.aprssi#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Users have reported that AFilter was passing stations beyond the distance filter. This may occasionally happen but it seems that in this case, AFilter was the victim of a mangled packet.

The packets in question had an originating callsign of WIDE, and one of the packets had a location that fell within the distance filter. Subsequent WIDE packets that failed the distance test were passed if the location of the current packet was null and the last valid location for the WIDE packet was within the filter. If a packet originating from WIDE had a packet that fell outside the distance filter, no more WIDE packets would be passed until the next WIDE packet had a location within the filter.

AFilter now rejects packets with originating calls of WIDE or [invalid].

A user reported that the file viewer in 1.1.4 was corrupting files when the file was edited and saved. (Thanks to KB7ZVA). This has now been fixed.

I hope to post AFilter 1.1.5 to ftp://ftp.billdiaz.dynip.com/outgoing before noon CDT.

Bill KC9XG

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158. [aprssi] RE: 2.46 still bad

From: Roger Barker <roger@peaksys.co.uk>
Date: Sat, 3 Jun 2000 15:12:09 +0100
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88314-2000.06.03-09.17.05--lyris.aprssi#tapr.org@lists.tapr.org>
Rendered body type: text/plain

In article <LYR1643-88310-2000.06.03-08.34.33--ROGER#PEAKSYS.CO.UK@lists.tapr.org>, Ian Wade <Ian.Wade@care4free.net> writes
>In article <01BFCD30.FE7A1080.billdiaz@megsinet.net>, Bill Diaz
><billdiaz@megsinet.net> writes
>>Ian,
>> WinAprs 2.4.6 is creating unhandled exceptions and many of us believe that
>>bad packets are the source of the errors. Decoding these packets with APRSdec
>>successfully may not prove anything. Obviously your code handles most of the
>>bad packets, but WinAprs does not.
>>
>>Headers that include timestamps, <UI> etc. provide no useful information, are
>a
>>waste of bandwidth, and may cause some applications to fail or misinterpret
>the
>>packet.
>>
>
>[a few more paragraphs of good sense snipped]
>
>
>Bill, what more can I say. I agree with you 100%. In fact, although
>APRSdec will handle things like <UI> and TNC timestamps in headers, I
>have now decided to flag these as warnings, because (as you rightly say)
>they shouldn't really be there.

That depends very much on what you are decoding with APRSdec. If you're decoding the internet data stream, then they shouldn't be there. However, if you're decoding data logged by an application, then whether or not they should be there is application specific.

>(Incidentally, Roger Barker's UI-View happily ignores <UI> and TNC
>timestamps in headers, so at least one person got it right :-))

Actually UI-View doesn't ignore the UI frame type identifier, it uses it. The initial development was done on RF channels that were carrying BBS traffic, and a top level filter that discarded everything other than UI frames seemed a very sensible idea.

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>

For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

159. [aprssig] RE: WinAPRS 2.4.6 released

From: "Jimmy Burkhalter" <kb5wio@tcac.net>
Date: Sat, 3 Jun 2000 09:41:50 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88316-2000.06.03-09.44.37--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Mark,

I am still loosing system resources causing the graph's to go black and bog the computer down to a halt all within 10 mins of starting program and connecting to tcp/ip and weather port. I don't have this problem in 2.4.1 and I am able to use this program for several days with no problems. I wish you could find out what is different as I would like to move up to the latest versions.

Jimmy Burkhalter KB5WIO
Amarillo, Texas

kb5wio@tcac.net

35:9:6 N 101:52:332 W

> -----Original Message-----
> From: bounce-aprssig-2220@lists.tapr.org
> [mailto:bounce-aprssig-2220@lists.tapr.org]On Behalf Of Mark Sproul
> Sent: Thursday, June 01, 2000 8:08 AM
> To: TAPR APRS Special Interest Group
> Subject: [aprssig] WinAPRS 2.4.6 released
>
>
> I have put LOTS of work into the stability of WinAPRS taking into account
> all of the feedback I have gotten from the sig. I hope this version works
> better.
>
> Mark
>

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160. [aprssig] Re: WinAPRS Ver 246 D700 Position errors

From: "Dick Stanich" <dstanic@c2i2.com>
Date: Sat, 3 Jun 2000 9:52:1
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88317-2000.06.03-09.54.45--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I did look at your program. It works great. But, I don't understand how this will fix Wayne's problem in Winaprs2.4.6. Other versions of winaprs normally convert the data correctly ie., v243.

Let's assume his data is being sent correctly. Your program verifies that. All he is saying is that 246 puts him somewhere else on the display. I guess my question was too general. Anyway, its being fixed.

Dick, KB7ZVA
SWAAG

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

161. [aprssig] Palm Maps

From: [jlagreek](mailto:jlagreek@inlink.com) <jlagreek@inlink.com>
Date: Sat, 3 Jun 2000 10:15:14 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Message-ID: <LYR842-88322-2000.06.03-10.18.06--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

John,

To find maps for pocketAPRS, go to www.pocketaprs.com you will find a map of the US with all the maps that are currently available. The maps are actually on the tapr.org site, but the map is an easy way see what's available. If your area does not have maps, then contact Mike. He also has a CD with maps on it.

73 de N00TM
Joe LaGreek
ARES District Emergency Coordinator
District C, Missouri Section

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

162. [aprssig] Bad packets: another clue?

From: Ian Wade <Ian.Wade@care4free.net>
Date: Sat, 3 Jun 2000 16:39:35 +0100
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88325-2000.06.03-10.43.11--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I've just been analyzing the error log ErrorLog.txt that Bill Diaz posted today. It contains the following weird packets:

Record #65
KA3ZPM>APRX44,WA4BWB-3*,TRACE,TRACE,TRACE,TRACE <UI R>:=3645.40N\07845.43WpYHG6230/Brent's
shack
**WARNING: Extraneous TNC status information in header
APRS Data Type= Posit w/o time. With APRS
Lat= 36 deg 45.40 min N Long= **BAD LONG
Icon= NWS Site Overlay= (none)

Record #67
KC6ETE-5>APRSW,WIDE4-4 [00/22/00 02:59:58]:\}KE4SLC-14>APRS,TCPIP,KC6ETE-5*:@021734z3901.86N/0
9544.90Wu324/000/Mic-E/M2/In Service>
**WARNING: Extraneous TNC status information in header
**WARNING: TNC Timestamp in header
APRS Data Type= (** Beacon, not APRS)

Record #540
N4PGS-9>S8QP9W,KF4UCI-3,KD4ZB-3,WA4BWB-3* <UI>:`j65m\{*j/
**WARNING: Extraneous TNC status information in header
APRS Data Type= Current Mic-E data
Message Type= /M2/In Service
Lat= 38 deg 10.97 min N Long= 78 deg 26.25 min W
Icon= Snow Overlay= **BAD OVERLAY CHAR 'j' not allowed with this symbol
Course= 95 deg Speed= 16 knots (18.4 mph 29.6 kph 8.2 m/s)

The common factor? Each of these packets contains at least one backslash where you wouldn't expect it. Is someone somewhere trying to escape certain characters?

Also, in the packet below, the character sequence '\1c' looks suspiciously like an attempt to encode 0x1c in printable characters. If you replace each of these sequences with a single literal 0x1c, the format of the packet would be correct (0x1c corresponds to zero, which is probably correct as the rest of the report contains zeros):

Record #538
PA0RYS-9>PP0PP0,WIDE,WIDE,PE1NMB*,TRACE5-4:'vX\1c1 \1cj/>AUTO
APRS Data Type= Old Mic-E Data
Message Type= /M1/En Route

Lat= 0 deg 00.00 min N Long= 0 deg 00.64 min E
Icon= **BAD SYMBOL TABLE IDENTIFIER/OVERLAY CHARACTER
Course= 171 deg Speed= 112 knots (128.9 mph 207.4 kph 57.6 m/s)

73
Ian, G3NRW
Technical Editor, APRS Protocol Specification
***** Third draft now available *****
--

+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: <http://www.tapr.org/tapr/html/Faprswg.html> |
| APRS DECODER: <http://www.netro.co.uk/aprs.htm> |
+-----+

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

163. [aprssig] RE: 2.46 still bad

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 3 Jun 2000 11:55:09 -0400 (EDT)
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Message-ID: <LYR842-88326-2000.06.03-10.58.01--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain
On Sat, 3 Jun 2000, Ian Wade wrote:

> (Incidentally, Roger Barker's UI-View happily ignores <UI> and TNC
> timestamps in headers, so at least one person got it right :-))

Careful, every TNC manufacturer displays <UI> and <<UI>> and many pther
forms of MCOM type packets in different ways. I started parsing and
ignrring them too, but found that there was always a differnt TNC with a
diifferent MCOM display format that I had not anticipated. I finally gave
up and just turn off MCOM and MSTAMP...

Good luck roger.. ;-) wink...

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

164. [aprssig] RE: New AFilter version 1.1.4

From: "bob" <w2g3zjfj@unix.asb.com>
Date: Sat, 3 Jun 2000 12:04:00 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88328-2000.06.03-11.08.12--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Bill

I entered a tcp mapping service on the proxy and its working fine now.

Thanks

73 de bob

-----Original Message-----
From: Bill Diaz <billdiaz@megsinet.net>
To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Date: Saturday, June 03, 2000 09:27
Subject: [aprssig] RE: New AFilter version 1.1.4

>Bob,
> I haven't tried AFilter with a proxy. Not all proxy are equal, and
settings
>and results may vary.
>
>However, AFilter reads APRServe.txt to determine what servers can be
accessed.

```

> You should try placing the proxy address and port in this file. Select
the
>proxy in AFilter and then see if your APRS application can connect to
APRserve
>thru AFilter and the proxy.
>
>
>Bill KC9XG
>
>On Saturday, June 03, 2000 8:17 AM, bob [SMTP:w2g3zfj@unix.asb.com] wrote:
>> Hi Bill
>>
>> Is it possible to use AFILTER with a proxy server?
>>
>> I set up the aserve.txt file as in winaprs with the proxie statement but
it
>> doesn't seem to connect.
>>
>> 73 de bob
>> w2/g3zfj
>>
>>
>> -----Original Message-----
>> From: Bill Diaz <billdiaz@megsinet.net>
>> To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
>> Date: Friday, June 02, 2000 21:39
>> Subject: [aprssig] New AFilter version 1.1.4
>>
>>
>> >AFilter 1.1.4 is available for download at
>> >ftp://ftp.billdiaz.dynip.com/outgoing Bandwidth is limited, and ftp is
>> only
>> >available when I am online.
>> >
>> >AFilter now allows the user to view, and edit text files. This feature
can
>> be
>> >used to view ErrorLog.txt while an AFilter session is active.
>> >
>> >I have also posted ErrorLog.txt. This file contains many of the errors
>> logged
>> >by AFilter 1.1.4 during a short time period this morning. I will post
new
>> >ErrorLog files to the ftp site as time permits.
>> >
>> >AFilter does not catch all errors. It will log certain packets as
errors,
>> but
>> >may, under certain conditions pass the original packet to a client
>> application.
>> >
>> >
>> >A new error category, Header errors has been added in 1.1.4. Headers
that
>> >contain timestamps or variants of <UI will be logged as errors.
>> >
>> >
>> >Partial listing of error conditions :
>> >
>> >NMEA strings with bad checksums. If no checksum is present this is not
>> >considered an error.
>> >
>> >$GPRMC strings that contain V, indicating an invalid location.
>> >
>> >NULL location packets. Any APRS packet that has a location of
>> 0000.00,00000.00
>> >will be logged as an error when distance filtering is on. This includes
>> Mic-E,
>> >and compressed locations. If invalid characters are found in a location
>> field,
>> >it will set location to NULL or 0,0. If a station previously passed the
>> >distance filter, a null location from this station will still be passed
to
>> the
>> >client application.
>> >
>> >If Alpha characters are encountered in a field specified as numeric, an
>> error
>> >will be logged.

```

```

>> >
>> >If a field required to contain information contains no information, and
>> error
>> >will be logged.
>> >
>> >Packets with no message payload are logged as errors.
>> >
>> >
>> >Bill KC9XG
>> >
>> >
>> >---
>> >You are currently subscribed to aprssig as: W2G3ZFJ@UNIX.ASB.COM
>> >To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
>> >
>> >
>
>---
>You are currently subscribed to aprssig as: W2G3ZFJ@UNIX.ASB.COM
>To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
>
>

```

```

---
You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

```

165. [aprssig] Re: SV6 GPS Info Needed on RS 232 (Max chip connection)

```

From: "Tim Cunningham" <tim_cunningham@mindspring.com>
Date: Sat, 3 Jun 2000 11:07:50 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88329-2000.06.03-11.11.11--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

```

> I did see a message about a week ago that these Units require the
> addition of an RS232 converter ( Max chip 232 ).
>
> Would some one out there please post the details on what is required
> and a diagram.
>
> Hopefully we are looking at purchasing a few of these and any info would
> be appreciated..

```

I spoke with the folks at Communications Surplus about the Trimble SV6 yesterday.

This is what I learned:

```

They are $49 each (circuit board) and come with a Trimble antenna.
It is a 6 channel unit.
Sends data each second.
It comes with some demo software.
It outputs a TTL signal, so an RS232 converter is needed if connecting to
a serial port on a computer.
It outputs data in TAIP format and does not support NMEA083.

```

They told me to visit <ftp://ftp.trimble.com/pub/sct/embedded/bin> and download the file tk510.exe for more information.

It sounds like a great deal, but if you need NMEA083 output, it will not work without external decoding and translation.

73's,

Tim - N8DEU
Huntsville, Alabama

```

---
You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

```

166. [aprssig] RE: Bad packets: another clue?

From: Bill Diaz <billdiaz@megsinet.net>
Date: Sat, 3 Jun 2000 11:23:39 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88332-2000.06.03-11.26.54--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Ian,

Try the packets I observed this morning and see what you get.

Improperly formatted or corrupted headers

```
WA4BWB-3>WIDE3-3 <UI,APRS,WB4PAN-3,WIDE:!3732.57NN07912.33W#PHG4623/W-R-T-VA
digi Lynchburg,VA.
W4S@AR>WIDE36-6
<UI,APW246,0WA4BWB-3*: _060131231c010s0030g000t073r000p0000P000h964b10042wRSW
W4FKY>AP0922,WA4BWB-3*,WIDE,WIDE <UI C>:!3722.55N/07911.57W'PHG7130 APRS+SA
QRT@2000/06/03 13:22:44
```

```
DL1GFM>[invalid],DB0HP,RELAY,WIDE:NO GPS >/
[invalid]>APW227,W8MW0*,WIDE:=3920.83N/08421.25WyPHG5104/WinAPRS 2.4.0
-OHBUTWEST CHE-244-<620>
[invalid]>APRS,KC2BIA,KB2EAR-1*!!006A0092034408F7275D03810195----0099043D00
000089
```

Improperly formatted headers, corrupted headers and payload.

```
niZZT-5>WIDE <UI,APW246,N5IUT*:=2933.25N 09837.5=W-PHG2160/WinAP1S
2.4.6I-TXBEXS,N ANTO-v46-<530>
CM5CA-5>WITE
<UI,WPW245,NAIUT*:_06022308c175s002g007t079r000p0000P000h84b00000wDSV
ZTLM>APRS4W5TQ,N5*UT* <UIU:!3106.91N/09728.30WI TPmple TXWAPRS Se2ver
5B5A0H-4>N5IUT* <UI,APRS,W5TQ:@330759z3021.32N/09745.09Wk014/000/A=000247M,
TPRS 1.75
A5YK>N5IUT5 <UI,APW,45,KA0AKS:=2629.00N.09742.04W_PHG00H0/WinAPiS
2.4.5.-245-<550>
45SMN>N5IUT*T<UI,AP5922,W5TT:>301908z[0922]APRS6SA Star0up 1520 3
n5YK>N5IUTr <UI,APW,45,KA0ARS:= 629.00Ns09742.0tW_PHG00n0/WinAPRS
2.4.5d-245-<50>
1A5MMY>N5IOT* <UI 0,A0W245,KA0ARS:=2613.96N/09842.70W_P>G7260/M
RC5WBG>N5IUT*
<UI,APW240,KA0ARS:_06030938c151s010g012t079r000p0,0P000h9.b10110wRSW
KC5WBG>N5IUT* <UI,APW240,KA0ARS:_0603091ac A0s010g0H-5
W5RKN>N5IUT* <UI R,APRS,W5TQ:!3021.41N/09745.58WZ Austin TX
85YK>N5IUT7 <UI,APW045,KA0ARS:=L629.00N009742.0,W_PHG00<0/WinAPRS
2.4.59-245-<500>
0A5MMY>N5IUT* <UI
C,A7W245,KA0ARS:_06030309c115s005g012t079r000p0000P000h92b1012NwRSW
H5SMN>N5IUT* <UI,AP 922,W5TR:>3W1908z[0 22]APRS8SA Star7up 1520P3
```

Bad NMEA CheckSum - mangled location information.

```
WA0MHZ-9 $GPRMC,152239,A,3248.3525,N,;1651.9004,W,21.234,269.8,030600,13.4,E*69
N0VHB-9 $GPRMC,125917,A,44003506,N,091287354,W,61900,117,030600,06,E*55
```

Bad packet format.

```
KCITY*,APRS:@031225z7945.156N/09737.27W>000/000/E>dsy/M0/Off duty.. PIC-E
Moble testing mark@grennan.com
```

Bill KC9XG

On Saturday, June 03, 2000 10:40 AM, Ian Wade [SMTP:Ian.Wade@care4free.net] wrote:

> I've just been analyzing the error log ErrorLog.txt that Bill Diaz posted
> today. It contains the following weird packets:

>

>

> -----

> Record #65

> KA3ZPM>APRX44,WA4BWB-3*,TRACE,TRACE,TRACE,TRACE <UI R>:=3645.40N

> \07845.43WyPHG6230/Brent's

> shack

> **WARNING: Extraneous TNC status information in header

> APRS Data Type= Posit w/o time. With APRS

> Lat= 36 deg 45.40 min N Long= **BAD LONG

> Icon= NWS Site Overlay= (none)

>

> -----

> Record #67

> KC6ETE-5>APRSW,WIDE4-4 [00/22/00 02:59:58]:\}KE4SLC-14>APRS,TCPIP,KC6ETE-5*:@

> 021734z3901.86N/0

> 9544.90Wu324/000/Mic-E/M2/In Service>

> **WARNING: Extraneous TNC status information in header

```

> **WARNING: TNC Timestamp in header
> APRS Data Type= (** Beacon, not APRS)
>
> -----
> Record #540
> N4PGS-9>S8QP9W,KF4UCI-3,KD4ZB-3,WA4BWB-3* <UI>: `j65m\{*j/
> **WARNING: Extraneous TNC status information in header
> APRS Data Type= Current Mic-E data
> Message Type= /M2/In Service
> Lat= 38 deg 10.97 min N Long= 78 deg 26.25 min W
> Icon= Snow Overlay= **BAD OVERLAY CHAR 'j' not allowed with this symbol
> Course= 95 deg Speed= 16 knots (18.4 mph 29.6 kph 8.2 m/s)
>
> -----
>
>
> The common factor? Each of these packets contains at least one backslash
> where you wouldn't expect it. Is someone somewhere trying to escape certain
> characters?
>
> Also, in the packet below, the character sequence \ '1c looks suspiciously
> like
> an attempt to encode 0x1c in printable characters. If you replace each of
> these sequences with a single literal 0x1c, the format of the packet would
> be correct (0x1c corresponds to zero, which is probably correct as the
> rest of the report contains zeros):
>
> -----
> Record #538
> PA0RYS-9>PP0PP0,WIDE,WIDE,PE1NMB*,TRACE5-4:'vX\ '1cl \ '1cj/>AUTO
> APRS Data Type= Old Mic-E Data
> Message Type= /M1/En Route
> Lat= 0 deg 00.00 min N Long= 0 deg 00.64 min E
> Icon= **BAD SYMBOL TABLE IDENTIFIER/OVERLAY CHARACTER
> Course= 171 deg Speed= 112 knots (128.9 mph 207.4 kph 57.6 m/s)
>
> -----
>
> 73
> Ian, G3NRW
> Technical Editor, APRS Protocol Specification
> ***** Third draft now available *****
> --
> +-----+
> | APRS on 144.800 [IO91SX] ~55km/35 miles NNW of London |
> | email: g3nrw@arrl.net |
> | |
> | APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
> | APRS DECODER: http://www.netro.co.uk/aprs.htm |
> +-----+
>
> ---
> You are currently subscribed to aprssig as: BILLDIAZ@MEGSINET.NET
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
>
> ---
> You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

```

167. [aprssig] Re: AGWPE?

```

From: Tate - KC7ZRU <kc7zru@cyberhighway.net>
Date: Sat, 03 Jun 2000 10:42:56 -0600
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Message-ID: <LYR842-88337-2000.06.03-11.46.56--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

You can find the 23 April flavor of the AGWPE software on the TAPR site:

ftp.tapr.org/software_lib/agwpe

Anyone have the May flavor of AGWPE.ZIP? Please upload it to the TAPR
upload dir.

Thanks!

73

Jim Andrews wrote:

```



```

>
> Anyone know where the AGWPE site has gone to?
>
> www.raag.org/sv2agw is unknown.
>
> Jim
>
--
                KC7ZRU      |   In Laramie Area
                Laramie, WY |   UARC Repeater
                DN71eh      |   146.610
"The Dungeon" online at http://www.cyberhighway.net/~tateb
                Redhat LINUX 6.1

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```

168. [aprssig] RE: 2.46 still bad

```

From: Roger Barker <roger@peaksys.co.uk>
Date: Sat, 3 Jun 2000 17:49:55 +0100
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88338-2000.06.03-11.59.17--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

In article <LYR1643-88326-2000.06.03-10.58.01--ROGER#PEAKSYS.CO.UK@lists
.tapr.org>, Bob Bruninga <bruninga@nadn.navy.mil> writes
>On Sat, 3 Jun 2000, Ian Wade wrote:
>
>> (Incidentally, Roger Barker's UI-View happily ignores <UI> and TNC
>> timestamps in headers, so at least one person got it right :-))
>
>>Careful, every TNC manufacturer displays <UI> and <<UI>> and many pther
>>forms of MCOM type packets in different ways. I started parsing and
>>ignring them too, but found that there was always a differnt TNC with a
>>diifferent MCOM display format that I had not anticipated. I finally gave
>>up and just turn off MCOM and MSTAMP...
>
>Good luck roger.. ;-) wink...

I haven't yet found one that I can't sucessfully parse, and I think I've
been writing packet software for enough years to have seen most decoded
frame header formats that can come out of a TNC. I do set MSTAMP OFF,
and there aren't that many different formats - once you can handle TNC2
clones, Kantronics and AEA/Timewave, there isn't much left to worry
about.

However, the above only applies to using a TNC in terminal mode, and I
would guess that the majority of UI-View users are using either KISS
mode, or a host mode in which the program is receiving raw KISS frames.
I'm then seeing the frame at the correct level, and there can be no
ambiguity in its interpretation.

--
Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - http://www.packetradio.org.uk
For WinPack go to - http://www.peaksys.co.uk

---
You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

```

169. [aprssig] AFilter 1.1.5

```

From: Bill Diaz <billdiaz@megsinet.net>
Date: Sat, 3 Jun 2000 12:30:35 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88345-2000.06.03-12.34.11--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

AFilter115.zip is available for downloading at
ftp://ftp.billdiaz.dynip.com/outgoing Bandwidth is limited, and the file is
only available when I am on line.

Fixed File view saving. File was corrupted when file was saved.

Now rejecting packets from WIDE and [invalid]

Bill KC9XG

```

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

170. [aprssig] Re: SV6 GPS Info Needed on RS 232 (Max chip connection)

From: "Sadowski, Allan" <allan.sadowski@ncshp.org>
Date: Sat, 3 Jun 2000 13:47:03 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <LYR842-88349-2000.06.03-12.46.24--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Not intending to refute you Tim... but the SV6 is the same unit PACCOMM has sold with their TNC2 clones and Pico units - for over 4 years.... and they've been successfully a part of APRS for that full 4 years... maybe I'm off base or somebody gave you bad poop... or I think it's likely that you can force the SV6 to output certain NMEA strings needed for APRS.....

Also... lot's of devices see TTL levels just fine for receiving RS232... I'd try the TTL output into the RS232 input first... it shouldn't hurt anything... and you may find that it works just fine... frankly... doggone few vendors meet the "full" RS232 spec... which (relying again on a summer cold fuzzy brain) if I recall was + and - 12 volts !!!

ALPHA
AH6LS

> It outputs a TTL signal, so an RS232 converter is needed if connecting to
> a serial port on a computer.
> It outputs data in TAIP format and does not support NMEA083.
>

snip

> It sounds like a great deal, but if you need NMEA083 output, it will not
> work without external decoding and translation.
>
> You are currently subscribed to aprssig as: ALLAN.SADOWSKI@NCSHP.ORG
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
>

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

171. [aprssig] Re: Going Digital ??

From: Tate - KC7ZRU <kc7zru@cyberhighway.net>
Date: Sat, 03 Jun 2000 10:45:33 -0600
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Message-ID: <LYR842-88350-2000.06.03-12.46.38--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Many folks like WinPak - find it at:

<http://www.peaksys.demon.co.uk/>

73

Wally Foster wrote:

>
> Slightly off topic, but who knows of a good packet program that will
> operate in a Win95/98 environment ?? Straight packet please, no host mode
> or DEDcode chips..
>

--

KC7ZRU		In Laramie Area
Laramie, WY		UARC Repeater
DN71eh		146.610

"The Dungeon" online at <http://www.cyberhighway.net/~tateb>
Redhat LINUX 6.1

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

172. [aprssig] Re: new version AGWPE posted (v2000.60)

From: Tate - KC7ZRU <kc7zru@cyberhighway.net>
Date: Sat, 03 Jun 2000 11:11:08 -0600
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Message-ID: <LYR842-88351-2000.06.03-12.47.37--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Cool!

If when you visit this page all you get is a blank, white page like I did, add 'inst.htm' to the URL:

<http://www.elcom.gr/sv2agw/inst.htm>

that should get ya to something you can see.

73

Bill Kearns wrote:

>
> download it here:
>
> <http://www.elcom.gr/sv2agw/>
>
> AGWPE fans,
>

--

KC7ZRU		In Laramie Area
Laramie, WY		UARC Repeater
DN71eh		146.610

"The Dungeon" online at <http://www.cyberhighway.net/~tateb>
Redhat LINUX 6.1

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

173. [aprssig] Re: Other Versions?

From: Tate - KC7ZRU <kc7zru@cyberhighway.net>
Date: Sat, 03 Jun 2000 11:34:12 -0600
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Message-ID: <LYR842-88352-2000.06.03-12.48.37--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Yup,

I believe you can find XAprs on the rutgers server
<http://aprs.rutgers.edu>

However, it seems most LINUX APRS users are running xastir

<http://www.eazy.net/users/fgiannan/linux/>

73

Scott-KC5JGV wrote:

>
> Is there a Linux version of APRS?
> How about X-APRS?
> I don't use linux so I'm in the dark about these version, which may be the
> same thing as far as I know.
> Can the authors please contact me directly at: kc5jgv@arrl.net .
>
> Thanks
>
> Scott
>

--
KC7ZRU | In Laramie Area
Laramie, WY | UARC Repeater
DN71eh | 146.610
"The Dungeon" online at <http://www.cyberhighway.net/~tateb>
Redhat LINUX 6.1

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174. [aprssig] Ver 6 EEPROM in a KPC3+?

From: "John B. Leonard, Jr." <jleonard@tbcnet.com>
Date: Sat, 3 Jun 2000 12:55:49 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88353-2000.06.03-12.58.36--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Can you put a good Version 6 firmware prom in a KPC 3 Plus?

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175. [aprssig] Re: SV6 GPS Info Needed on RS 232 (Max chip connection)

From: "Tim Cunningham" <tim_cunningham@mindspring.com>
Date: Sat, 3 Jun 2000 13:00:30 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: <aprssig@tapr.org>
Message-ID: <LYR842-88355-2000.06.03-13.04.06--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Allan,

One minor detail I forgot to mention is that the units are not the SV6 as the original thread suggested unless that has changed. They told me they were CM3's if that makes any difference. If they can perform NMEA083 that would be wonderful news if anybody knows the answer.

-----Original Message-----

From: Sadowski, Allan <allan.sadowski@ncshp.org>
To: 'Tim Cunningham' <tim_cunningham@mindspring.com>
Cc: 'aprssig@tapr.org' <aprssig@tapr.org>
Date: Saturday, June 03, 2000 12:43 PM
Subject: RE: [aprssig] Re: SV6 GPS Info Needed on RS 232 (Max chip connection)

>Not intending to refute you Tim... but the SV6 is the same unit PACCOMM has
>sold with their TNC2 clones and Pico units - for over 4 years.... and
>they've been successfully a part of APRS for that full 4 years... maybe I'm
>off base or somebody
>gave you bad poop... or I think it's likely that you can force the SV6 to
>output certain
>NMEA strings needed for APRS.....
>
>Also... lot's of devices see TTL levels just fine for receiving RS232...
I'd
>try the TTL
>output into the RS232 input first... it shouldn't hurt anything... and you
>may find that
>it works just fine... frankly... doggone few vendors meet the "full"
RS232
>spec...
>which (relying again on a summer cold fuzzy brain) if I recall was + and -
>12 volts !!!
>
>ALOHA
>AH6LS
>
>
>> It outputs a TTL signal, so an RS232 converter is needed if connecting to
>> a serial port on a computer.

>> It outputs data in TAIP format and does not support NMEA083.
>>
> snip
>
>> It sounds like a great deal, but if you need NMEA083 output, it will not
>> work without external decoding and translation.
>>

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176. [aprssig] Re: SV6 GPS Info Needed on RS 232 (Max chip connection)

From: Gerry Creager N5JXS <gerry@cs.tamu.edu>
Date: Sat, 03 Jun 2000 13:23:11 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Message-ID: <LYR842-88357-2000.06.03-13.26.53--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Tim Cunningham wrote:

>
> > I did see a message about a week ago that these Units require the
> > addition of an RS232 converter (Max chip 232).
> ...
> They told me to visit ftp://ftp.trimble.com/pub/sct/embedded/bin and
> download the file tk510.exe for more information.
>
> It sounds like a great deal, but if you need NMEA083 output, it will not
> work without external decoding and translation.

Some FEW SV-6's were not capable of NMEA output. Most are. I've used 'em for APRS, Cows In Space and Buses in Space, as well as consulting on AVL projects requiring NMEA and occassionally, TSIP. I still prefer, generally, the Motorola boards, but the SV6 works. I prefer it over the SK-8.

73,gerry

--

Gerry Creager gerry@cs.tamu.edu, gerry@page4.cs.tamu.edu
Network Engineering |Geodesy
Computer Science Department |Satellite Geodesy and Control
Texas A&M University |
979.458.4020

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177. [aprssig] Re: SV6 GPS Info Needed on RS 232 (Max chip connection)

From: Gerry Creager N5JXS <gerry@cs.tamu.edu>
Date: Sat, 03 Jun 2000 13:23:55 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>,
 aprssig@tapr.org
Message-ID: <LYR842-88358-2000.06.03-13.27.41--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Tim Cunningham wrote:

>
> Allan,
>
> One minor detail I forgot to mention is that the units are not
> the SV6 as the original thread suggested unless that has
> changed. They told me they were CM3's if that makes any
> difference. If they can perform NMEA083 that would be
> wonderful news if anybody knows the answer.

Yes. the CM series can.

--

Gerry Creager gerry@cs.tamu.edu, gerry@page4.cs.tamu.edu
Network Engineering |Geodesy
Computer Science Department |Satellite Geodesy and Control
Texas A&M University |
979.458.4020

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178. [aprssig] Re: SV6 GPS Info Needed on RS 232 (Max chip connection)

From: Doug Bade <doug@ohioaprs.net>
Date: Sat, 03 Jun 2000 14:36:07 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <LYR842-88360-2000.06.03-13.39.05--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hello Folks;

The SveeSix unit comes in 3 formats. In most versions it is a flash upgrade to change from one to another. The CM3 is a specific version of Sveesix which I am familiar. Flash is available, and the nmea version works well. BUT it has no RMC sentence, so for any trackers GGA and VTG sentences need to be used. Trimble said for about \$2000.00 US they would write me a version for RMC as the unit supports it it just does not send it.. I declined, but we re-wrote the Pic E W2FS version to support this unit.. I currently have 6 trackers running this combo... 73, doug Kb8gvq

At 01:47 PM 6/3/00 -0400, Sadowski, Allan wrote:

>Not intending to refute you Tim... but the SV6 is the same unit PACCOMM has
>sold with their TNC2 clones and Pico units - for over 4 years.... and
>they've been successfully a part of APRS for that full 4 years... maybe I'm
>off base or somebody
>gave you bad poop... or I think it's likely that you can force the SV6 to
>output certain
>NMEA strings needed for APRS.....
>
>Also... lot's of devices see TTL levels just fine for receiving RS232... I'd
>try the TTL
>output into the RS232 input first... it shouldn't hurt anything... and you
>may find that
>it works just fine... frankly... doggone few vendors meet the "full" RS232
>spec...
>which (relying again on a summer cold fuzzy brain) if I recall was + and -
>12 volts !!!
>
>ALOHA
>AH6LS
>
>
>> It outputs a TTL signal, so an RS232 converter is needed if connecting to
>> a serial port on a computer.
>> It outputs data in TAIP format and does not support NMEA083.
>>
>> snip
>>
>> It sounds like a great deal, but if you need NMEA083 output, it will not
>> work without external decoding and translation.
>>
>> You are currently subscribed to aprssig as: ALLAN.SADOWSKI@NCSHP.ORG
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>>
>>
>---
>You are currently subscribed to aprssig as: DOUG@CLECOM.COM
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179. [aprssig] Re: SV6 GPS Info Needed on RS 232 (Max chip connection)

From: "Tim Cunningham" <tim_cunningham@mindspring.com>
Date: Sat, 3 Jun 2000 13:53:50 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: <aprssig@tapr.org>
Message-ID: <LYR842-88362-2000.06.03-13.57.09--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I received several responses that the CM3 will handle NMEA and after reading the suggested file at Trimble I found the following lines in the document to confirm this.

<snip>
7) 34055-62 - CAUTION! This program will change the receiver's default settings. It is compatible ONLY with receivers having v5.10 firmware and PN 34055-xx!

This program allows the developer to change the receiver protocol to
Port 1: NMEA in/out at 4800 baud 8-none-1;
Port 2: RTCM in at 4800 baud 8-none-1.
<snip>

Thanks to all who provided some great information.

73's,

Tim - N8DEU
Huntsville, Alabama

-----Original Message-----

From: Gerry Creager N5JXS <gerry@cs.tamu.edu>
To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>;
aprssig@tapr.org <aprssig@tapr.org>
Date: Saturday, June 03, 2000 1:28 PM
Subject: [aprssig] Re: SV6 GPS Info Needed on RS 232 (Max chip connection)

>Tim Cunningham wrote:

>>

>> Allan,

>>

>> One minor detail I forgot to mention is that the units are not
>> the SV6 as the original thread suggested unless that has
>> changed. They told me they were CM3's if that makes any
>> difference. If they can perform NMEA083 that would be
>> wonderful news if anybody knows the answer.

>

>Yes. the CM series can.

>--

>Gerry Creager gerry@cs.tamu.edu, gerry@page4.cs.tamu.edu
>Network Engineering |Geodesy
>Computer Science Department |Satellite Geodesy and Control
>Texas A&M University |
>979.458.4020
>

>

>---

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180. [aprssig] Re: SV6 GPS Info Needed on RS 232 (Max chip connection)

From: Ralph Fowler <rwf@bsrg.org>
Date: Sat, 03 Jun 2000 15:11:02 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88368-2000.06.03-14.20.42--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Allan-

They have not sold the SVee6 in the Pico for at least 2 years!
I bought one two years ago and it had a newer , different unit. I relieve a
Rockwekll is the one being used now.
The SVee6 was good in its time, just better stuff came along .

At 01:47 PM 06/03/2000 -0400, you wrote:

>Not intending to refute you Tim... but the SV6 is the same unit PACCOMM has
>sold with their TNC2 clones and Pico units - for over 4 years.... and
>they've been successfully a part of APRS for that full 4 years... maybe I'm
>off base or somebody

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181. [aprssig] Re: Ver 6 EEPROM in a KPC3+?

From: Byron Smith <wa6ylb@theworks.com>
Date: Sat, 03 Jun 2000 12:12:15 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: aprssig@tapr.org
Message-ID: <LYR842-88369-2000.06.03-14.21.25--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

No, the first version of KPC3+ was version 7.0. Also the eeprom size is different too (27C512 for KPC3, 27010 for KPC3+)

At 12:55 PM 06/03/2000 -0500, you wrote:
>Can you put a good Version 6 firmware prom in a KPC 3 Plus?

Byron Smith
wa6ylb@theworks.com
wa6ylb@wa6ylb.#nca.ca.usa.noam
ICQ 26114994

<http://www.theworks.com/~wa6ylb>

"Luge strategy? Lie flat and try not to die."

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
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182. [aprssig] Re: AEA PK-12 Node Configuration

From: Ralph Fowler <rwf@bsrg.org>
Date: Sat, 03 Jun 2000 15:22:59 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88395-2000.06.03-14.30.28--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

If you are setting up in Montgomery, please don't use the AEA TNC as a digi. Our entire SE Digi network supports callsign substitution, and WIDEN-N. If you set us and do not support it (which the AEA doesn't do) you will risk breaking the network. What I mean by that is that you will not continue the digi chain if someone is using intelligent routing.

The best thing you could do right now is to use a standard TNC-2 (available for a dime a dozen now) with the UIDIGI Rom in it. Next best thing to do would be use a KPC-3 TNC. There is no need for a 3+. Make sure it has at least date code 265 of Rls 8.2 and you will be fine.

Please consider this option!

By the way, isn't there already a pretty goot digi in Montgomery- over at that College NE of town? Or are you thinking of changing out the TNC there?

Ralph N4NEQ
Atlanta

At 03:44 PM 06/02/2000 -0500, you wrote:

>Is there anyone out there that has a AEA PK-12 on the air as a APRS NODE?
>How about a AEA PK-96?

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183. [aprssig] Re: Sotrm surge

From: Ralph Fowler <rwf@bsrg.org>
Date: Sat, 03 Jun 2000 15:25:58 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Message-ID: <LYR842-88396-2000.06.03-14.30.30--lyris.aprssid@lists.tapr.org>
Rendered body type: text/plain

I don't know about now, but there used to be pretty good offshore cell coverage in that area as long ago as 10-12 years.
I think the provider was Petrocom and the cells were on the oil rigs.
I remember it was about \$6.00 a minute when I first heard about it.

But I agree- APRS would be a good technology for him to use.

Ray vaughan wrote:

>I was just watching Discovery Channel News. There was a story about
>Hurricanes and the efforts to predict storm surge. There's a expert in
>New Orleans, Dr. Stone, I think, who is constructing a network of
>off-shore monitoring stations near LA. There are 3 so far. Looks like a
>platform on wood piers with a weather station, solar panels and a sea
>level sensor. They said the data is coming back on cell phones. Someone
>from Emergency Management said that even the 3 they have now WILL save lives.

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184. [aprssid] KCAWG Site down....

From: Jim Duncan <ku0g@kcaprs.org>
Date: Sat, 03 Jun 2000 15:45:26 -0500
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Message-ID: <LYR842-88397-2000.06.03-15.48.25--lyris.aprssid@lists.tapr.org>
Rendered body type: text/plain

We're having server problems at www.kcaprs.org the past 24 hours. Any private email sent to me should NOT be addressed to @kcaprs.org until further notice....Please direct personal mail to me at ku0g@socket.net in the interim.

The domain name still resolves but apparently the server itself has crashed. We ARE working on it, however. We anticipated this crash when the system had a disk-drive error two days ago....Hopefully we've caught it in time!

Obviously, anyone trying to access the Elmers or any other pages hosted at www.kcaprs.org will not get a response.... Email going to addresses @kcaprs.org should be OK but MAY not be delivered for 2-3 days depending on how quickly Larry gets the server going again....

Thanks for your patience!

--

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group, W0APR
First Alert Storm Team KMBC-TV9
Mailto:ku0g@kcaprs.org
Webpage: http://www.kcaprs.org

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185. [aprssid] Re: Palm Maps

From: John Zaruba Jr <jzaruba@snip.net>
Date: Sat, 03 Jun 2000 16:53:40 -0400
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Cc: JSN <kc8ffv@k8sn.org>
Message-ID: <LYR842-88399-2000.06.03-15.56.31--lyris.aprssid@lists.tapr.org>
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

Hi John,

The files are not "maps" per se, you can't just download them and look at them. The DLG files are digital descriptions of features like roads, railroads, and bodies of water in a given geographic region.

Software, like MacDLG, must be used to process the files and create a

map. In this case, MacDLG outputs a map in the format compatible with Win/Mac/PocketAPRS.

You can get MacDLG at <http://www.tapr.org> , it includes docs on making maps, and the URL's to locate the DLG files on the US Geological Survey website.

```
- --
73 de John AA2BN
aa2bn@amsat.org

-----BEGIN PGP SIGNATURE-----
Version: PGPfreeware 6.5.2 for non-commercial use <http://www.pgp.com>

iQA/AwUBOTltg2EYbMz58nyVEQLIAQCg9adYCq5G3hnaDWUrPNns/9f7KEAoPk9
RdEtGAH0LOPy/hDSEKhY0AB5
=17X/
-----END PGP SIGNATURE-----

---
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```

186. [aprssig] RE: Bad packets: another clue?

```
From: Ian Wade <Ian.Wade@care4free.net>
Date: Sat, 3 Jun 2000 22:07:09 +0100
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88403-2000.06.03-16.10.50--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

> Try the packets I observed this morning and see what you get.

Hmmmmmm. What a mess!

```
-----
Record #2
WA4BWB-3>WIDE3-3 <UI,APRS,WB4PAN-3,WIDE:!3732.57NN07912.33W#PHG4623/W-R-T-VAdigi Lynchburg,VA.
**WARNING: Extraneous TNC status information in header
**WARNING: Non-zero APRS Digipeater Path= WIDE3-3
APRS Data Type= Posit w/o time. No APRS
Lat= 37 deg 32.57 min N Long= 79 deg 12.33 min W
Icon= Star (green) Overlay= N
Power= 16 watts Height above average terrain= 640 feet (195.1 meters)
Gain= 2 dB Range Circle= 38.0 miles (61.2 km) Directivity= South East
-----
```

```
Record #3
W4S@AR>WIDE36-6 <UI,APW246,0WA4BWB-3*:_060131231c010s0030g000t073r000p0000P000h964b10042wRSW
**WARNING: Extraneous TNC status information in header
**WARNING: Invalid callsign 'W4S@AR'
**WARNING: Non-zero APRS Digipeater Path= WIDE6-6
APRS Data Type= Positionless WX Station
**BAD/MISSING TIMESTAMP. Rest of data may not decode correctly.
**MISSING WIND DIRECTION 'c' parameter
**MISSING SPEED 's' parameter
**EXPECTED 'g' (gust) or '/' (storm type)
-----
```

```
Record #4
W4FKY>AP0922,WA4BWB-3*,WIDE,WIDE <UI C>:!3722.55N/07911.57W`PHG7130 APRS+SA QRT@2000/06/03
13:22:44
**WARNING: Extraneous TNC status information in header
APRS Data Type= Posit w/o time. No APRS
Lat= 37 deg 22.55 min N Long= 79 deg 11.57 min W
Icon= Dish antenna Overlay= (none)
Power= 49 watts Height above average terrain= 20 feet (6.1 meters)
Gain= 3 dB Range Circle= 9.4 miles (15.1 km) Directivity= Omni-directional
-----
```

```
Record #5
DL1GFM>[invalid],DB0HP,RELAY,WIDE:NO GPS >/
**WARNING: Invalid callsign '[invalid]'
APRS Data Type= (** Beacon, not APRS)
-----
```

```
Record #6
[invalid]>APW227,W8MW0*,WIDE:=3920.83N/08421.25WyPHG5104/WinAPRS 2.4.0 -OHBUTWEST CHE-244-<620>
**WARNING: Invalid callsign '[invalid]'
APRS Data Type= Posit w/o time. With APRS
Lat= 39 deg 20.83 min N Long= 84 deg 21.25 min W
Icon= Yagi at QTH Overlay= (none)
```

```

Power= 25 watts   Height above average terrain= 20 feet (6.1 meters)
Gain= 0 dB    Range Circle= 6.7 miles (10.8 km)   Directivity= South
-----
Record #7
[invalid]>APRS,KC2BIA,KB2EAR-1*::!!006A0092034408F7275D03810195----0099043D00000089
**WARNING: Invalid callsign '[invalid]'
APRS Data Type= Ultimeter WX station
-----
Record #9
niZZT-5>WIDE <UI,APW246,N5IUT*:=2933.25N 09837.5=W-PHG2160/WinAP1S 2.4.6I-TXBEXS,N ANTO-
v46-<530>
**WARNING: Extraneous TNC status information in header
**WARNING: Invalid callsign 'niZZT'
APRS Data Type= Posit w/o time. With APRS
Lat= 29 deg 33.25 min N Long= **BAD LONG
Icon= **BAD SYMBOL TABLE IDENTIFIER/OVERLAY CHARACTER
Power= 4 watts   Height above average terrain= 20 feet (6.1 meters)
Gain= 6 dB    Range Circle= 6.0 miles (9.7 km)   Directivity= Omni-directional
-----
Record #10
CM5CA-5>WITE <UI,WPW245,NAIUT*:_06022308c175s002g007t079r000p000h84b00000wDSV
**WARNING: Extraneous TNC status information in header
APRS Data Type= Positionless WX Station
Date= 02 Jun   Time= 23 hours 08 mins UTC
Wind Direction= 175 deg   Speed= 002 mph (3.2 kph  0.9 m/s  1.7 knots)
Gust Speed= 7 mph (11.3 kph  3.1 m/s  6.1 knots)
Temp= 79 degF (26.1 degC)   Windchill= 79.0 degF (26.1 degC)
Rain: Last hour= 0 in (0.0 mm)   Last 24 hrs= 0 in (0.0 mm)
      Since midnight= 0 in (0.0 mm)
Humidity= 84 percent   Dew Point= 73.6 degF (23.1 degC)
Barometric Pressure= 0 mbar/hP
-----
Record #11
ZTLM>APRS4W5TQ,N5*UT* <UIU:13106.91N/09728.30WI TPmple TXWAPRS Se2ver
**WARNING: Extraneous TNC status information in header
**WARNING: Invalid callsign 'APRS4W5TQ'
APRS Data Type= Posit w/o time. No APRS
Lat= 31 deg 06.91 min N Long= 97 deg 28.30 min W
Icon= TCP/IP   Overlay= (none)
-----
Record #12
5B5A0H-4>N5IUT* <UI,APRS,W5TQ:@330759z3021.32N/09745.09Wk014/000/A=000247M, TPRS 1.75
**WARNING: Extraneous TNC status information in header
APRS Data Type= Posit w/ time. With APRS
**BAD/MISSING TIMESTAMP. Rest of data may not decode correctly.
Lat= 30 deg 21.32 min N Long= 97 deg 45.09 min W
Icon= Truck   Overlay= (none)
Course= 014 deg   Speed= 000 knots (0.0 mph  0.0 kph  0.0 m/s)
Altitude= 247 feet (75 meters)
-----
Record #13
A5YK>N5IUT5 <UI,APW,45,KA0AKS:=2629.00N.09742.04W_PHG00H0/WinAP1S 2.4.5.-245-<550>
**WARNING: Extraneous TNC status information in header
APRS Data Type= Posit w/o time. With APRS
Lat= 26 deg 29.00 min N Long= 97 deg 42.04 min W
Icon= **BAD SYMBOL TABLE IDENTIFIER/OVERLAY CHARACTER
Radius of Hurricane Winds= (Indeterminate)
-----
Record #14
45SMN>N5IUT*T<UI,AP5922,W5TT:>301908z[0922]APRS6SA Star0up 1520 3
APRS Data Type= Status
Day= 30   Time= 19 hours 08 mins UTC
-----
Record #15
n5YK>N5IUTr <UI,APW,45,KA0ARS:= 629.00Ns09742.0tW_PHG00n0/WinAPRS 2.4.5d-245-<5>0>
**WARNING: Extraneous TNC status information in header
**WARNING: Invalid callsign 'n5YK'
**WARNING: Invalid callsign 'N5IUTr'
APRS Data Type= Posit w/o time. With APRS
Lat= 48 deg 04.87 min N Long= 119 deg 58.68 min W
Course= 96 deg   Speed= 4 knots (4.6 mph  7.4 kph  2.1 m/s)
GPS Fix= Old (last)   NMEA Source= GGA   Compression Origin= [tbd]
Icon= **BAD SYMBOL TABLE IDENTIFIER/OVERLAY CHARACTER
-----
Record #16
1A5MMY>N5I0T* <UI 0,A0W245,KA0ARS:=2613.96N/09842.70W_P>G7260/M
**WARNING: Extraneous TNC status information in header
APRS Data Type= Posit w/o time. With APRS
Lat= 26 deg 13.96 min N Long= 98 deg 42.70 min W

```

```

Icon= WX station   Overlay= (none)
-----
Record #17
RC5WBG>N5IUT* <UI,APW240,KA0ARS:_06030938c151s010g012t079r000p0,0P000h9.b10110wRSW
**WARNING: Extraneous TNC status information in header
APRS Data Type= Positionless WX Station
Date= 03 Jun   Time= 09 hours 38 mins UTC
Wind Direction= 151 deg   Speed= 010 mph (16.1 kph  4.5 m/s  8.7 knots)
Gust Speed= 12 mph (19.3 kph  5.4 m/s  10.4 knots)
Temp= 79 degF (26.1 degC)   Windchill= 76.1 degF (24.5 degC)
Rain: Last hour= 0 in (0.0 mm)   Last 24 hrs= (Indeterminate)
      Since midnight= 0 in (0.0 mm)
Humidity= (Indeterminate)
Barometric Pressure= 1011 mbar/hP
-----
Record #18
KC5WBG>N5IUT* <UI,APW240,KA0ARS:_0603091ac A0s010g0H-5
**WARNING: Extraneous TNC status information in header
APRS Data Type= Positionless WX Station
**BAD/MISSING TIMESTAMP. Rest of data may not decode correctly.
Wind Direction= **BAD COURSE   Speed= 010 mph (16.1 kph  4.5 m/s  8.7 knots)
Gust Speed= (Indeterminate)
-----
Record #19
W5RKN>N5IUT* <UI R,APRS,W5TQ:!!3021.41N/09745.58WZ Austin TX
**WARNING: Extraneous TNC status information in header
APRS Data Type= Posit w/o time. No APRS
Lat= 30 deg 21.41 min N   Long= 97 deg 45.58 min W
Icon= WinAPRS   Overlay= (none)
-----
Record #20
85YK>N5IUT7 <UI,APW045,KA0ARS:=L629.00N009742.0,W_PHG00<0/WinAPRS 2.4.59-245-<5o0>
**WARNING: Extraneous TNC status information in header
APRS Data Type= Posit w/o time. With APRS
Lat= 48 deg 04.87 min N   Long= 119 deg 58.70 min W
Course= 96 deg   Speed= 4 knots (4.6 mph  7.4 kph  2.1 m/s)
GPS Fix= Old (last)   NMEA Source= GGA   Compression Origin= [tbd]
Icon= Circle   Overlay= L
-----
Record #21
0A5MMY>N5IUT* <UI C,A7W245,KA0ARS:_06030309c115s005g012t079r000p000P000h92b1012NwRSW
**WARNING: Extraneous TNC status information in header
APRS Data Type= Positionless WX Station
Date= 03 Jun   Time= 03 hours 09 mins UTC
Wind Direction= 115 deg   Speed= 005 mph (8.0 kph  2.2 m/s  4.3 knots)
Gust Speed= 12 mph (19.3 kph  5.4 m/s  10.4 knots)
Temp= 79 degF (26.1 degC)   Windchill= 78.4 degF (25.8 degC)
Rain: Last hour= 0 in (0.0 mm)   Last 24 hrs= 0 in (0.0 mm)
      Since midnight= 0 in (0.0 mm)
Humidity= 92 percent   Dew Point= 76.4 degF (24.7 degC)
Barometric Pressure= (Indeterminate)
-----
Record #22
H5SMN>N5IUT* <UI,AP 922,W5TR:>3W1908z[0 22]APRS8SA Star7up 1520P3
**WARNING: Extraneous TNC status information in header
APRS Data Type= Status
**BAD/MISSING TIMESTAMP. Rest of data may not decode correctly.
-----
Record #25
WA0MHZ>-9>APRS:$GPRMC,152239,A,3248.3525,N,;1651.9004,W,21.234,269.8,030600,13.4,E*69
APRS Data Type= Raw GPS NMEA Data
**WARNING: NMEA checksum error. Data may not decode correctly.
Status= Valid Position
Date= 03 Jun 2000   Time= 15 hours 22 mins 39 secs UTC
Lat= 32 deg 48.3525 min N   Long= **BAD LONG
Icon= Car   Overlay= (none)
Course= 269.8 deg   Ground Speed= 21.234 knots (24.4 mph  39.3 kph  10.9 m/s)
Magnetic Variation= 13.4 deg E
-----
Record #26
N0VHB>-9>APRS:$GPRMC,125917,A,44003506,N,091287354,W,61900,117,030600,06,E*55
APRS Data Type= Raw GPS NMEA Data
**WARNING: NMEA checksum error. Data may not decode correctly.
Status= Valid Position
Date= 03 Jun 2000   Time= 12 hours 59 mins 17 secs UTC
Lat= **BAD LAT   Long= **BAD LONG
Icon= Car   Overlay= (none)
Course= 117 deg   Ground Speed= **BAD SPEED   Magnetic Variation= 06 deg E
-----

```

Record #28
KCITY*,APRS:@031225z7945.156N/09737.27W>000/000/E>dsy/M0/Off duty.. PIC-E Moble testing
mark@grennan.com
APRS Data Type= Posit w/ time. With APRS
Day= 03 Time= 12 hours 25 mins UTC
Lat= **BAD LAT Long= **BAD LONG
Icon= NWS Site Overlay= N

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187. [aprssig] Re: Dayton hamvention APRS Channel Loading

From: John Ackermann <jra@febo.com>
Date: Sat, 03 Jun 2000 17:57:51 -0300
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88405-2000.06.03-17.00.50--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> Has anybody compiled a list of observed Call Signs at Dayton this year?

Once again, the W8APR digi/Igate kept a log of all the data it saw during Hamvention weekend. I hope to process it soon and post a Dayton-2000 analysis to go with the ones for 1998 and 1999 at dayton.aprs.net. I had to leave for a business trip right after Hamvention and just got back, so it may be a few days before I can massage the data. I'll post here when it's available.

By the way -- for the folks who complained about the one-way IGate in Dayton, sorry about that. It's not for lack of trying.

The problem is that W8APR is a linux machine running two separate programs for digi (aprsdigi) and Igate (aprsmon). I've wanted to upgrade the system to the latest version of aprsdigi (to get WIDEN-N support) and aprsd (for 2-way Igate) but the two programs (at least for now) require incompatible Linux "glibc" libraries, and thus both can't be installed on the same machine. Until someone ports aprsdigi to the current glibc, we can't run both functions -- and unfortunately, there are no signs of that port happening.

I'm working on alternatives, but wasn't able to get any of them in place prior to Hamvention.

73,
John N8UR
jra@febo.com

--

John Ackermann N8UR
Dayton, Ohio, USA
jra@febo.com -- <http://www.febo.com>

-----BEGIN PGP PUBLIC KEY BLOCK-----
Version: 2.6.3a

mQBtAzgI9hgAAEDAMiMQDZTVVuVIS0AscJ0Wy63oK4+Q5xvtxbX/ZoG1qCOuYDI
Fph4/RqL9vVEItWB6iSk+zbkATzPgy84nrI7+GBtld4F9DoHwARQXjC1I8cFZjY
TSe16ffq0/balukLnQAFebQlSm9obiBSLiBBY2tlcm1hbm4gTjhVUiA8anJhQGZl
Ym8uY29tPokAdQMFEFdgI9hjq0/balukLnQEBtYIC/AxJ2RqT0/9TqY8JGEkPx2sw
+W5Z6Tu4UI654t9diGdCcIEPj0G1qUvwH2Xop0Yj9QGoM4NnH1w6qUSN5VH7hHKA
bGnpuTxinuW/gKaI3bt2MC8QZZq0gy2de269071E2A==
=UHWL
-----END PGP PUBLIC KEY BLOCK-----

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188. [aprssig] APRServe problem?

From: Skip Allison <sallison@megsinet.net>
Date: Sat, 03 Jun 2000 17:00:49 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88406-2000.06.03-17.04.33--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I tried connecting to the APRServe network from WinAPRS 2.4.3 today and it says TCP open failed. Is it down, or did something change? I'm trying to see where the Igates are in the UK. I'm going to be there and want to know where to try to do APRS.

Skip
K9SA

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189. [aprssig] Re: javAPRS revisited, problems

From: John Ackermann <jra@febo.com>
Date: Sat, 03 Jun 2000 18:04:40 -0300
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88407-2000.06.03-17.07.33--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> Dear Sig,
> I am trying to get javAPRS to work for a new webpage I am designing, but I am
> having great difficulty, I was hoping maybe somebody here knows why.
>
> 1) It works great if I use a captured log file for the DataFile
>
> 2) As soon as I change the datafile to netc:10151:www.aprs.net
> or any other server on any port I get error opening data stream on the webpage
> when I try to bring it up.
>
> Can someone critique what is wrong with the page? It is testing at
> www.miaprs.net/~kb8zgl/aprs.html
>
> Any help would be GREAT! Thanks,
> Mike Wolthuis
> KB8ZGL

Because of the java security features, a java applet can only open a data source that's on the local machine -- you can't pump a remote feed into a javAPRS applet. To solve this problem at dayton.aprs.net, which gets the local Dayton feed via an RF TCP/IP link from the digi/Igate site, I had to spool the data into a local file, and then read that into the applet. Ugly, but it works.
(There's some data on the configuration at dayton.aprs.net/magic.html)

John N8UR
jra@febo.com

--
John Ackermann N8UR
Dayton, Ohio, USA
[jra@febo.com](http://www.febo.com) -- <http://www.febo.com>

-----BEGIN PGP PUBLIC KEY BLOCK-----
Version: 2.6.3a

mQBtAzgI9hgAAEDAMiMQDZTVVvVIS0AscJ0Wy63oK4+Q5xvtxbX/ZoG1qC0uYDI
Fph4/RqL9vVEItWBy6ISk+zbkATzPgy84nrI7+GBtld4F9DoHWARQXjC1I8cFZjY
TSe16ffq0/balukLnQAFebQ1Sm9obiBSLiBBY2tlcm1hbm4gTjhVUiA8anJhQGZl
Ym8uY29tPokAdQMFEEdgi9hjq0/balukLnQEBtYIC/AxJ2RqT0/9TqY8JGEPx2sw
+W5Z6Tu4UI654t9diGdCcIEPjOG1qUvwH2Xop0Yj9QGoM4NnHiw6qUSN5VH7hHKA
bGnpuTxinuW/gKaI3bt2MC8QZzq0gy2de269071E2A==
=UHWL
-----END PGP PUBLIC KEY BLOCK-----

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190. [aprssig] RE: 2.46 still bad

From: Tim Salo <salo@networkcs.com>
Date: Sat, 3 Jun 2000 17:13:24 -0500 (CDT)
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88408-2000.06.03-17.16.09--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

> From: Bill Diaz <billdiaz@megsinet.net>
> Subject: [aprssig] RE: 2.46 still bad
> Date: Sat, 3 Jun 2000 07:54:46 -0500

A few, perhaps rather picky, comments follow.

> [...]
> Does the APRS specification require Timestamps or <UI> in the header. No.
> If a header contains information not in the spec, then it is not APRS
> compliant. Non-Compliant packets should not be passed by any APRS
> compliant station IMO.

Just for the record, the current APRS specification describes the APRS packets transmitted on the air. It does not specify several things that are at issue here:

- o The format of messages from IGates to APRServe (and other software providing similar function);
- o The format of messages from APRServe (and other software providing similar function) to IGates; and
- o The format of messages between a TNC and a host running APRS software.

So, good, bad, or other wise, I don't believe that you can, in all cases, look to the APRS protocol specification to tell you which packets in the APRServe system are bad. Having said that:

- o There are obviously (and I believe always have been) a number of pretty screwed up packets forwarded through the APRServe system; and
- o It would probably be useful to have a specification that describes the proper operation of the APRServe system, including the proper format of messages between IGates/APRServe.

> At least one station is occasionally including [invalid] instead of
> callsigns in the header.

As you know, there are a number of callsigns found in the APRServe system that are not valid callsigns, typically because they are longer than six characters and/or contain lower case characters.

> ... However, non-compliant
> packets should be eliminated at the source. IGATES should detect malformed
> packets and not propagate the errors throughout the network. IGATES are the
> ideal place to eliminate garbage. Unfortunately, many IGATES pass this
> garbage, and some even create more garbage.

Again, it would be useful to specify the format of IGate/APRServe packets.

(Some of my favorite packets forwarded by the IGate/APRServe system combine the TNC2 and Timewave/AEA header formats. Someone can figure out whether these should be permitted in the spec...)

Another place to filter bad packets would be the APRServe programs. They could parse and discard invalid packets. It would be interesting to see the results of such an effort if only those packets that conform to the APRS protocol specification were permitted. (Note that Steve has repeatedly stated his disinterest in maintaining or updating the APRServe software, and so we can't expect him to add this functionality.)

-tjs

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191. [aprssig] VS-3 for D700a

From: Jonathan Kaplan <jonk@jskent.com>
Date: Sat, 03 Jun 2000 16:46:39 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88414-2000.06.03-18.49.26--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi all,

I just got from Texas Towers a VS-3 voice synthesizer module

for the D700a that was backordered for three months. The manuals for the D700a are both very cryptic about the use of this feature. I thought I saw a thread on this SIG a while back about this, but I can't find it. Is there a comprehensive discussion about this module and where do I find it?

TNX es 73

Jonathan K06XS

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

192. [aprssig] RE: 2.46 still bad

From: Bill Diaz <billdiaz@megsinet.net>
Date: Sat, 3 Jun 2000 19:12:50 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88418-2000.06.03-19.15.50--lyris.aprssig@lists.tapr.org>
Rendered body type: text/plain

Tim,

The entire purpose of this and similar threads was to determine why WinAPRS was crashing and to find a quick remedy. The consensus was that bad data packets was the cause of the errors. Mark Sproul indicated that if the packets causing the errors were identified, he could quickly provide a fix. Since the errors were encountered quite often, we hoped to find the source and attempt to have the offending device or application terminated, and to provide Mark with a target for a WinAprs fix.

Therefore, we looked at all packets that did not conform to the standard APRS packet format, as outlined in the protocol specification. It quickly became obvious that the Internet feed, and some local RF networks were awash with malformed packets.

Recent complaints about the mixing of 2 or more packets may have been related to TimeStamps being included in the header of packets being passed by an IGATE. The IGATE packet owners packets were mixed with those of a station in South America. The South American stations was being serviced by the IGATE in question. When the IGATE TNC was re-configured to eliminate the timestamps, no more complaints were received. Conclusion : The mixing was likley happening in the IGATE or at APRServe. Fixing APRServe was not an option as you pointed out. Fixing the TNC configuration was an option that could be, and was, quickly implemented.

Based on this experience, we attempted to identify stations or IGATEs that had malformed packets and have the problem corrected at the source. We were partially successful. Many of the problem packets have been eliminated. There are still stations and IGATEs in particular that are sending or propagating bad packets but these should be cleaned up before long.

tjs wrote :

- > Just for the record, the current APRS specification describes the APRS
- > packets transmitted on the air. It does not specify several things that
- > are at issue here:
- >
- > o The format of messages from IGates to APRServe (and other software
- > providing similar function);
- >
- > o The format of messages from APRServe (and other software
- > providing similar function) to IGates; and
- >
- > o The format of messages between a TNC and a host running APRS
- > software.
- >
- > So, good, bad, or other wise, I don't believe that you can, in all cases,
- > look to the APRS protocol specification to tell you which packets in the
- > APRServe system are bad. Having said that:
- >
- > o There are obviously (and I believe always have been) a number
- > of pretty screwed up packets forwarded through the APRServe
- > system; and
- >
- > o It would probably be useful to have a specification that describes
- > the proper operation of the APRServe system, including the
- > proper format of messages between IGates/APRServe.
- >

Including useless, and or unintelligible information in packet headers is a waste of the limited bandwidth available to APRS users and is the likely source of many errors or lost information. The obvious place to eliminate the malformed packets is at the source. However, all APRS applications and devices should be fault tolerant, and conform to the APRS protocol. Stations originating or propagating packets not conforming to the protocol should not expect that other applications or devices will honor those packets. Therefore, the burden should be placed primarily upon the user to ensure that his packets, or packets modified by, or propagated by his station, will conform to the present protocol specification and to the expectations of other applications and devices.

Changing the specification is not an option in the foreseeable future. It is still in draft form, and who knows when it will become final. It does provide us with a standard that can be used to develop compliant devices and applications.

tjs wrote :

```
> Another place to filter bad packets would be the APRServe programs. They
> could parse and discard invalid packets. It would be interesting to see
> the results of such an effort if _only_ those packets that conform to the
> APRS protocol specification were permitted. (Note that Steve has
> repeatedly stated his disinterest in maintaining or updating the APRServe
> software, and so we can't expect him to add this functionality.)
>
> -tjs
```

Therefore, for the time being, we should strive to eliminate errors at the source and to encourage authors to provide APRS compliant and fault tolerant applications.

Bill KC9XG

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193. [aprssig] Kenwood D-700 APRS Speech Contest

From: Keith Sproul <ksproul@td.rutgers.edu>
Date: Sat, 3 Jun 2000 20:51:21 -0400 (EDT)
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: jonk@jskent.com
Message-ID: <LYR842-88421-2000.06.03-19.53.59--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Here is a copy of the announcement about the voice contest and the D700. In it are references to the D700 /VS-3 voice documentation

(Note the APRS site is currently down, but will be back up tomorrow, use the DORM web site for the moment).

----- Forwarded message -----
Date: Thu, 11 May 2000 22:17:24 -0400 (EDT)
From: Keith Sproul <ksproul@hardees.rutgers.edu>
To: askrat@rats.org
Subject: Kenwood D-700 APRS Speech Contest

=====
==== Kenwood D700 APRS(tm) Speech Message Contest =====
=====

The Kenwood TM-D700 Radio has the ability to have a speech synthesizer added to it. If you add this option, you can make the D700 'SPEAK' or actually 'SPELL' APRS messages.

When you send a message to a D700 with the VS-3 Speech chip, it will SPELL the call sign of the station that sent the message.

In addition to this, if you put a percent sign '%' as the FIRST character of a message, it will SPELL the letters and numbers of the message.

For example, if I send the following message from WU2Z to WB4APR,

%ICU2

Bob will hear:

DOUBLE-YOU YOU TWO ZED I SEE YOU TOO

We are announcing a contest to see what kind of messages people can come up with for using this neat feature of the Kenwood TM-D700 radio and the VS-3.

=====
Rules for the contest:

* There will be three categories:

The LONGEST message that makes sense.

The MOST TECHNICAL message.

The most original or funniest message.

* The winners will be announced at the ARRL Digital Communications Conference in Orlando, FL, September 2000. (Exact date not yet determined)

* Each winner will receive a \$50 gift certificate from Kenwood Radio.

* APRS Authors and Kenwood employees are not eligible.

* The judges will be the APRS Authors and Kenwood personnel that are present at the September 2000, ARRL DCC in Orlando, FL.

* All decisions of the judges will be final.

* All entries must be sent by email ksproul@noc.rutgers.edu by September 1st, or delivered in person at the DCC.

* PLEASE put D700 CONTEST as the subject of the email!!!

* You must have a valid Amateur Radio License to enter.

* You do NOT need to own a Kenwood D700 or VS-3 to enter.

* You do NOT need to be a registered user of any version of APRS to enter.

* You do NOT need to be present at the ARRL DCC to win.

* In case of a tie, i.e. exact or very similar duplicate message the earliest received entry will win.

* In case of other ties, the judges opinions will determine the winner.

* All entries can be used by Kenwood and/or the APRS authors for demo and/or advertising purposes. All entries will be posted on the Web after the contest, with your call sign to give you credit.

* Entries that imply profanity or inappropriate content will be ignored.

=====
The documentation for the Speech functions of the D700 are at:

<http://aprs.rutgers.edu/D700Voice.html>

There is also a copy of it at:

<http://dorm.rutgers.edu/~ksproul/D700Voice.html>

(If one is down, try the other, I will keep them both updated)

If you have questions about this contest, or how the Voice option works, please send email to me at: ksproul@noc.rutgers.edu

As questions come in, I will update the documentation if needed.

You may distribute this announcement to other places, but you must leave it exactly as is.

--
Keith Sproul
WinAPRS/MacAPRS/X-APRS Author
<http://dorm.rutgers.edu/~ksproul/>
Ham Radio: WU2Z
<mailto://ksproul@noc.rutgers.edu>

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194. [aprssig] Road trip to NC next week

From: "Chris Schwab" <1schwab1@tampabay.rr.com>
Date: Sat, 3 Jun 2000 20:56:40 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88422-2000.06.03-19.59.39--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

This is mainly for the northern Georgia/North Carolina crowd..

I'm heading to Canton, NC next Saturday morning for a week of Summer Camp at Camp Daniel Boone with our boy scout troop. I know I can make some Satellite contacts, but is what is the chance of working some terrestrial APRS? I was looking at the map, and it looks like I'll be about 80 miles from N4NEQ-11, but I didn't see any other stations locally.

Anyone have any suggestions, or know something that I can't tell from the map?

73,
Chris

Chris Schwab, N4BSA
Scoutmaster, Troop 488 Largo FL
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See where I am! <http://map.findu.com/n4bsa-9>

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195. [aprssig] RE: 2.46 still bad

From: Tim Salo <salo@networkcs.com>
Date: Sat, 3 Jun 2000 21:57:11 -0500 (CDT)
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88427-2000.06.03-21.59.58--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> From: Bill Diaz <billdiaz@megsinet.net>
> Subject: [aprssig] RE: 2.46 still bad
> Date: Sat, 3 Jun 2000 19:12:50 -0500
> [...]
> Recent complaints about the mixing of 2 or more packets may have been
> related to TimeStamps being included in the header of packets being
> passed by an IGATE.

For what it is worth, I believe I have APRServe dumps from over a year ago that contain merged packets.

> [...]
> tjs wrote :
> [...]
> > o It would probably be useful to have a specification that describes
> > the proper operation of the APRServe system, including the
> > proper format of messages between IGates/APRServe.
> [...]
>
> Changing the specification is not an option in the foreseeable future.

> It is still in draft form, and who knows when it will become final. It
> does provide us with a standard that can be used to develop compliant
> devices and applications.

I'm sorry I wasn't more clear.

I strongly recommend that the specification of the proper operation of the APRServe system be contained in a separate document, not in the nearly complete APRS protocol specification. I believe that trying to include everything that anyone wants specified about APRS in one document is a bad idea:

- o A single document tends to become unwieldy. A change anywhere in the APRS systems causes a new release of the standard document, or more likely, for the document to become quickly outdated when the enormity of updating a large document becomes apparent. (Do we need [or get] a new release of the APRS protocol specification when Yaesu releases an APRS-capable rig, or does the APRS protocol spec simply become a bit outdated? When Kenwood releases yet another APRS-capable rig? Or, even another variant of the TH-D7A?)
- o A single document tends to become unfair to the editor. I rather suspect that Ian volunteered for a much smaller task than he ultimately faced, based on a narrowly defined objective of specifying the on-the-air protocol that ballooned to include, for example, commentary on user interfaces.
- o A single document makes the graceful evolution of the APRS system difficult. For example, it would be nice to be able to enhance the APRServe systems independently of the base APRS protocol.

By the way, I also believe that APRS user interface guidelines also be contained in a separate document.

-tjs

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196. [aprssig] Re: WinAPRS Ver 246 D700 Position errors

From: "Ben Pollard" <ws5r@arrl.net>
Date: Sat, 3 Jun 2000 23:20:48 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88440-2000.06.03-23.24.58--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Seeing the same thing on D7's

Ben

----- Original Message -----

From: "G. W. Hester" <ke7ku@arrl.net>
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Sent: Friday, June 02, 2000 11:00 PM
Subject: [aprssig] WinAPRS Ver 246 D700 Position errors

> WinAPRS Ver 246 has position data errors for D700 radios, so stations
> running D700's have the longitude reported as 14 instead of 114 etc. In
> essence ver 246 is dropping the first digit of the longitude data. It is
> now impossible to track mobiles running a D700 radio with the erroneous
> data created by ver 246. The solution is to run ver 243 or 244 as the
> icon
> goes away with ver 245 when you zoom in on the map.
>
> This should make all of us Kenwood owners happy!
>
> Wayne
> ke7ku@arrl.net
> Southwest Arizona APRS Group
>
>
> ---
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> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
>

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197. [aprssig] AFilter software and AGWPE checklist

From: Tate - KC7ZRU <kc7zru@cyberhighway.net>
Date: Sun, 04 Jun 2000 00:29:59 -0600
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88471-2000.06.04-01.34.23--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

With Bill Diaz's permission, AFilter software is available on my web site (URL in sig block). Should help with access and improve download times. Currently, Version 114 is posted. I'll get 115 posted as soon as I can get a copy.

Also, Bill Kearn's 'Getting AGWPE and WinAPRS to work with a sound card' checklist is on my site. Look under either 'APRS' - getting started section or 'Packet Radio' - software section.

Both of these are 'manually mirrored' - updates will be made as soon as and as often as I can.

73

--

KC7ZRU		In Laramie Area
Laramie, WY		UARC Repeater
DN71eh		146.610

"The Dungeon" online at <http://www.cyberhighway.net/~tateb>
Redhat LINUX 6.1

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198. [aprssig] GPS Cable For Kenwood D700

From: "Zanella, Larry" <larry.zanella@attws.com>
Date: Sun, 4 Jun 2000 01:27:48 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88480-2000.06.04-03.30.48--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Does anyone know of a commercial supplier that would have a cable to interface the Garmin GPS-35 PC to the new Kenwood TM-D700A?

One end needs to be a male DB-9 connector (mates to GPS-35 PC cable) and the other end (radio termination) needs to be a male subminiature stereo plug (2.5 mm or 0.1 inches diameter).

Length is unimportant---maybe one foot or so.

Uses 3 connections: DB-9 Pin # 2 is GPS Data OUT, DB-9 Pin # 3 is GPS Data IN and DB-9 Pin # 5 is ground for signal.

If no one supplies such a cable, does anyone know of a supplier that might custom make them, say a minimum of a dozen or so?

Thanks!

Larry Zanella
WA7LZO

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199. [aprssig] Bad Data: Update Sunday 4 June

From: Ian Wade <Ian.Wade@care4free.net>
Date: Sun, 4 Jun 2000 10:05:47 +0100
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88483-2000.06.04-04.09.31--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Earlier today (Sunday 4 June at around 0100-0130 CDT) I logged about 7000 packets from www.aprs.net:23. Things look a lot cleaner now, but there are still a few rogues (some lines

truncated here as they are too long):

Extraneous UI in Headers

```
=====
KC5WBG>N5IUT* <UI,APW240,KA0ARS:_06040711c142s006g006t077r000p000P000h93b10100wRSW
KA0ARS>WIDE <UI C,APZ16,N5IUT*!:2608.46N/09750.06W#PHG9560/WIDE...LaFeria TX APRS DIGIPEATER
N5YK>N5IUT* <UI,APW245,KA0ARS:=2629.00N/09742.00W_PHG0000/WinAPRS 2.4.5 -245-<530>
KM5CA-5>WIDE <UI,APW245,N5IUT*:_06031918c151s001g010t076r000p000P000h86b00000wDAV
KB5LDY-2>WIDE <UI,APRS,N5IUT*!:2942.20NN09524.20W#PHG5560 TxMedCntr ARE52 chacker@utpsph.sph
KF6SWI>WIDE4-1 <UI,GP5LK,W6KRW-2*:$GPRMC,061934,A,3432.8884,N,11803.2958,W,000.0,170.9,04060
W6APA-2>WIDE3 <UI,GP5C63,W6KRW-2*:$ULTW00970039028E017B---000086A000010000009B016D00000071
KC6VVT>WIDE4-1 <UI,APRS,W6KRW-2*:>252322z APRS846 up
KH2Z>WIDE2 <UI,APS199,W6KRW-2*:=3401.41N/11709.45WbAPRS+SA Inet=Yes Uptime=003:06:04:42
```

"Strange" Callsigns and "SSID"s

=====

Record #117

```
KB2EAR-IP>APW246,TCPIP*:=4025.26N/07433.91WZ -246-<530>
**WARNING: Invalid SSID in callsign 'KB2EAR-IP'
APRS Data Type= Posit w/o time. With APRS
Lat= 40 deg 25.26 min N Long= 74 deg 33.91 min W
Icon= WinAPRS Overlay= (none)
```

Record #234

```
W3FJK-QTH>APW245,TCPIP*:=4034.01N/07958.01WZPHG2000/WinAPRS 2.4.5 -PAALLHAMPTON -245-<530>
**WARNING: Invalid SSID in callsign 'W3FJK-QTH'
APRS Data Type= Posit w/o time. With APRS
Lat= 40 deg 34.01 min N Long= 79 deg 58.01 min W
Icon= WinAPRS Overlay= (none)
Power= 4 watts Height above average terrain= 10 feet (3.0 meters)
Gain= 0 dB Range Circle= 3.0 miles (4.8 km) Directivity= Omni-directional
```

Record #2360

```
WA4TKG>AA4QI-1,W4IZ-1*,WIDE3-2:!3016.53N/08126.23W& WinAPRS QRT @032146z
**WARNING: Non-zero APRS Digipeater Path= WIDE1-1
APRS Data Type= Posit w/o time. No APRS
Lat= 30 deg 16.53 min N Long= 81 deg 26.23 min W
Icon= HF Gateway Overlay= (none)
```

Record #3206

```
KE4NFJ-34>APZ032,TCPIP*:=/:p6{;#I'x{%CXASTIR-Linux {G.Stueve@IEEE.Org}
**WARNING: Invalid SSID in callsign 'KE4NFJ-34'
APRS Data Type= Posit w/o time. With APRS
Lat= 38 deg 49.25 min N Long= 77 deg 01.46 min W
Pre-Calculated Radio Range= 2.0 miles (3.2 km)
GPS Fix= Current NMEA Source= Other Compression Origin= Software Compression
Icon= X-APRS Unix Overlay= (none)
```

Unexpected Destination

=====

Record #1074

```
K8SCH-10>WIDE3-3,WIDE,TRACE6-6:!3905.92NN08438.69WmPHG7460/W-R-T OhKyIn ARS - MIC-E with the
146.925- repeater!
**WARNING: Non-zero APRS Digipeater Path= WIDE3-3
APRS Data Type= Posit w/o time. No APRS
Lat= 39 deg 05.92 min N Long= 84 deg 38.69 min W
Icon= Value Signpost Overlay= **BAD OVERLAY CHAR 'N' not allowed with this symbol
Power= 49 watts Height above average terrain= 160 feet (48.8 meters)
Gain= 6 dB Range Circle= 31.6 miles (50.9 km) Directivity= Omni-directional
```

Missing Header

=====

These are very strange.

```
-----
Record #2562
K9APR>APW246,K4DMU-10*,WIDE5-1::KD4EVB :I run 2.4.6 here no problems yet.{004
APRS Data Type= Message
[*** THIS IS OK, BUT SEE THE NEXT ONE]
```

```
-----
Record #2575
}K9APR>APW246,K4DMU-10*,WIDE5-1::KD4EVB :I run 2.4.6 here no problems yet.{004
**WARNING: Invalid callsign 'K9APR'
APRS Data Type= Message
[*** THIS LOOKS LIKE A THIRD-PARTY REPEAT OF THE ABOVE, BUT
WITH THE HEADER MISSING]
```

```
-----
Record #3663
N0RMO>APW246,TCPIP*: _06040626c159s008g008t071r000p000P000h16b10140wRSW
APRS Data Type= Positionless WX Station
Date= 04 Jun Time= 06 hours 26 mins UTC
Wind Direction= 159 deg Speed= 008 mph (12.9 kph 3.6 m/s 7.0 knots)
Gust Speed= 8 mph (12.9 kph 3.6 m/s 7.0 knots)
Temp= 71 degF (21.7 degC) Windchill= 67.6 degF (19.8 degC)
Rain: Last hour= 0 in (0.0 mm) Last 24 hrs= 0 in (0.0 mm)
Since midnight= 0 in (0.0 mm)
Humidity= 16 percent Dew Point= 22.6 degF (-5.2 degC)
Barometric Pressure= 1014 mbar/hP
[*** THIS IS OK, BUT SEE THE NEXT ONE]
```

```
-----
Record #3664
_06040626c159s008g008t071r000p000P000h16b10140wRSW
**BAD PACKET. No path. Bailing out.
[*** IS THIS FROM N0RMO? THE WX DATA MATCHES THE PREVIOUS PACKET]
```

```
-----
Record #3665
W0NWS :ack062
**WARNING: Extraneous TNC status information/junk in header
APRS Data Type= (** Beacon, not APRS)

[*** IS THIS FROM N0RMO? SEE NEXT PACKET]
```

```
-----
Record #4428
W0NWS>APW244,K0BOY-1*,WIDE/1::N0RMO :North Platte just issued a svr tstrm for Lincoln
county{062
APRS Data Type= Message
```

```
-----
73
Ian, G3NRW
Technical Editor, APRS Protocol Specification
***** Third draft now available *****
```

```
--
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
|
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html|
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

```
---
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```

200. [aprssig] Is it me or what???

```
From: Jim Duncan <ku0g@socket.net>
Date: Sun, 04 Jun 2000 01:31:59 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88487-2000.06.04-04.19.16--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

Has anyone else noticed problems on Internet today? I can't get into the WinAPRS site at Rutgers either and haven't gotten a single email

since doing a temporary subscription to the SIG two hours ago...

--

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group, W0APR
First Alert Storm Team KMBC-TV9
Mailto:ku0g@kcaprs.org
Webpage: <http://www.kcaprs.org>

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201. [aprssig] Re: Bad Data: Update Sunday 4 June

From: Ian Wade <Ian.Wade@care4free.net>
Date: Sun, 4 Jun 2000 10:25:39 +0100
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88488-2000.06.04-04.29.22--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

In article <LYR14778-88483-2000.06.04-04.09.31--Ian.Wade#care4free.net@lists.tapr.org>, Ian Wade <Ian.Wade@care4free.net> writes
>
>
>Missing Header
>=====

>
>These are very strange.
>
>-----
>Record #2562
>K9APR>APW246,K4DMU-10*,WIDE5-1::KD4EVB :I run 2.4.6 here no problems yet.{004

[snip]

I've just realized: I think the packets with missing headers come from stations running APW246. Is that the root cause of the problem?

73
Ian, G3NRW
Technical Editor, APRS Protocol Specification
***** Third draft now available *****

--
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| | |
| APRS PROTOCOL SPEC: <http://www.tapr.org/tapr/html/Faprswg.html> |
| APRS DECODER: <http://www.metro.co.uk/aprs.htm> |
+-----+

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202. [aprssig] Speed Data From Garmin GPS-35 PC

From: "Larry Zanella" <larry.zanella@attws.com>
Date: Sun, 4 Jun 2000 4:27:7
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88489-2000.06.04-04.30.00--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The speed data being reported by my Garmin PCS-35 PC is consistently LOW by about 15 to 20% or so. Is this because it always assumes a straight line and also that the calculation is performed at less than once per second?

The speed accuracy on my Garmin GPSMAP 295 is extremely accurate, but then again it has a built in map, so it does not have to assume a straight line. On the other hand, the more often a GPS unit calculates speed, the less important it is whether you are going straight or not, so maybe this is because the 295 has a way bigger processor and it calculates once per second (as often as it gets an update, of course).

Larry Zanella
WA7LZO

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203. [aprssig] Kenwood D700 Interface to Garmin GPSMAP 295

From: "Larry Zanella" <larry.zanella@attws.com>
Date: Sun, 4 Jun 2000 4:46:14
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88490-2000.06.04-04.49.04--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

In attempting to interface my Kenwood TM-D700A to the (fairly new) Garmin GPSMAP 295, it appears to be interfacing OK, as far as far as accepting output data from the Garmin to the Kenwood. For instance, my Kenwood is including good altitude, Lat/Long, and speed information when I set the Beacon On.

However, I can NOT seem to INPUT data from the Kenwood into the Garmin 295. For instance, I can NOT get waypoint info into the Garmin to populate its waypoint tables and to display call signs on its map.

I had heard a rumor that the 295 does NOT accept INPUT data from the Kenwood D700, at least not waypoint info. When I asked why this is the case in considering that the 295 is compatible with NMEA IN/OUT (per Garmin 295 manual), I was told that there really is not a NMEA INPUT standard, but there IS an OUTPUT NMEA standard.

I have also heard that the Garmin GPS III Plus is compatible with the Kenwood D700 insofar as waypoint INPUT data, but that many of the Garmins are NOT compatible, such as the Street Pilot, 295 and several other Garmins relative to INPUT data.

BTW, I have tripple checked the cable between the Kenwood and Garmin 295 by toning it out, and it tests good. I have set the "Interface" on the Garmin 295 for NMEA OUTPUT (which the Garmin manual describes as NMEA IN/OUT), and I have it set at 4800 baud. I have the Kenwood set for GPS ON, with NMEA type, and I have the waypoint output capability enabled in the Kenwood, and I specified up to 9 digits (maximum) for NMEA waypoint (eg, call sign info).

Is this a Buyer Beware situation?

Larry Zanella
WA7LZO

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204. [aprssig] Re: Kenwood D700 Interface to Garmin GPSMAP 295

From: Keith Sproul <ksproul@vger.rutgers.edu>
Date: Sun, 4 Jun 2000 08:57:02 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: aprssig@lists.tapr.org
Message-ID: <LYR842-88524-2000.06.04-08.01.32--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

>

>I have also heard that the Garmin GPS III Plus is compatible with the
>Kenwood D700 insofar as waypoint INPUT data, but that many of the Garmins
>are NOT compatible, such as the Street Pilot, 295 and several other Garmins
>relative to INPUT data.

The Garmin GPS III+ accepts the Waypoint uploads. The Street Pilot and the Color Street Pilot do NOT accept the waypoint upload data.

>BTW, I have tripple checked the cable between the Kenwood and Garmin 295 by
>toning it out, and it tests good. I have set the "Interface" on the Garmin
>295 for NMEA OUTPUT (which the Garmin manual describes as NMEA IN/OUT), and
>I have it set at 4800 baud. I have the Kenwood set for GPS ON, with NMEA
>type, and I have the waypoint output capability enabled in the Kenwood, and
>I specified up to 9 digits (maximum) for NMEA waypoint (eg, call sign
>info).

>

>Is this a Buyer Beware situation?

Yes, this is a buyer-beware situation.

What we need is for MANY people to call Garmin and ask for that feature to be in the Street Pilot and Color Street Pilot, and other units. If enough people ask for it, they may put it in.

The GOOD news is their software upgrade policy. They put the upgrades on their web site, you download the program and upload your Garmin from your computer.

THEREFORE, if they get enough demand for it and decide to do it, all you would have to do is upgrade the software in your unit.

Keith Sproul

Keith Sproul	732 445-3695 Office
Student Housing Network Coordinator	732 445-2968 Fax
mailto:ksproul@rci.rutgers.edu	732 821-4828 Home
http://dorm.rutgers.edu/~ksproul/	WU2Z

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205. [aprssig] Re: WinAPRS Ver 246 D700 Position errors

From: rhost@itexas.net (Roy Bost)
Date: Sun, 4 Jun 2000 07:59:18 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88525-2000.06.04-08.02.15--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

2.4.6 is tracking the D700 in my van OK but I am running 2.4.6 in the van also.

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206. [aprssig] Wx Parcing

From: rhost@itexas.net (Roy Bost)
Date: Sun, 4 Jun 2000 08:07:02 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88526-2000.06.04-08.09.54--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Is there a Wx advisory parcing program out there that will substitute county names for SAME codes? Someone locally is sending out Wx Advisories that list only SAME codes. To me this makes the WX advisories pointless as no one knows what areas are being affected by the advisories.

Roy Bost N5TAM
rhost@itexas.net

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207. [aprssig] Small Fonts in WinAPRS 2.4.5

From: "Joel B. Black" <jbblack@mindspring.com>
Date: Sun, 4 Jun 2000 08:37:29 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88528-2000.06.04-08.41.28--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

What have I done to make my fonts so small in my message, path, and station lists. I don't *think* I have changed anything. I have tried re-doing the fonts under Settings -> General Display. My fonts are still small though. This has happened before, but I don't remember what I did to change it.

Thanks,

Joel B. Black, K2SAT
AMSAT.....32589
AMSAT Local Area Coordinator

k2sat@amsat.org
http://www.mindspring.com/~jbblack
A0-10, A0-27, F0-20, F0-29, S0-35, U0-14
T0-31, U0-22, U0-36

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208. [aprssig] Re: Small Fonts in WinAPRS 2.4.5

From: "Joel B. Black" <jbblack@mindspring.com>
Date: Sun, 4 Jun 2000 08:43:08 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88529-2000.06.04-08.47.09--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Nevermind, I found it right after I posted - sorry.

Tnx,
Joel, K2SAT

----- Original Message -----

From: Joel B. Black <jbblack@mindspring.com>
To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Sent: Sunday, June 04, 2000 8:37 AM
Subject: [aprssig] Small Fonts in WinAPRS 2.4.5

> What have I done to make my fonts so small in my message, path, and
station
> lists. I don't *think* I have changed anything. I have tried re-doing
the
> fonts under Settings -> General Display. My fonts are still small though.
> This has happened before, but I don't remember what I did to change it.
>
> Thanks,
>
> Joel B. Black, K2SAT
> AMSAT.....32589
> AMSAT Local Area Coordinator
> k2sat@amsat.org
> http://www.mindspring.com/~jbblack
> A0-10, A0-27, F0-20, F0-29, S0-35, U0-14
> T0-31, U0-22, U0-36
>
>
>
> ---
> You are currently subscribed to aprssig as: jbblack@mindspring.com
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
>

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209. [aprssig] NWS time zones

From: "Jeff Brenton" <jeffb@espi.com>
Date: Sun, 4 Jun 2000 14:37:26 -0000
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: "aprssig" <aprssig@tapr.org>
Message-ID: <LYR842-88535-2000.06.04-09.40.21--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Given that the internet stream has NWS warnings available, but time zones
are a problem, wouldn't it be prudent to move to an on-air format that uses
UTC, rather than local time?

You can still ENTER the data into WinAPRS in local time, and it can then use
the UTC-offset input into the system to convert those to UTC... The
difference would be that the time in the broadcast would have a 'z' appended
to it, to differentiate it from the "old" format.

[Actually, I would hope that the time parsers in the various APRS programs
already out there would be smart enough to notice the 'z', and adjust
accordingly, without a deliberate change, but...]

Jeff Brenton, Amateur Radio call sign KA9VNV
http://espi.com
Questionable web page: http://dididahdahdidit.com

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

210. [aprssig] Re: Bad Data: Update Sunday 4 June

From: "Brent Hildebrand" <bhildebrand@earthlink.net>
Date: Sun, 4 Jun 2000 07:37:59 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88536-2000.06.04-09.40.57--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```
> Extraneous UI in Headers
> =====
> KC5WBG>N5IUT* <UI,APW240,KA0ARS:_06040711c142s006g006t077r000p000P000h93b10100wRSW
> KA0ARS>WIDE <UI C,APZ16,N5IUT*:!2608.46N/09750.06W#PHG9560/WIDE...LaFeria TX APRS DIGIPEATER
> N5YK>N5IUT* <UI,APW245,KA0ARS:=2629.00N/09742.00W PHG0000/WinAPRS 2.4.5 -245-<530>
> KM5CA-5>WIDE <UI,APW245,N5IUT*:_06031918c151s001g010t076r000p000P000h86b00000wDAV
> KB5LDY-2>WIDE <UI,APRS,N5IUT*:!2942.20NN09524.20W#PHG5560 TxMedCntr ARES2 chacker@utpsph.sph
> KF6SWI>WIDE4-1 <UI,GP5LK,W6KRW-2*:$GPRMC,061934,A,3432.8884,N,11803.2958,W,000.0,170.9,04060
> W6APA-2>WIDE3 <UI,GP5C63,W6KRW-2*:$ULTW00970039028E017B----000086A000010000009B016D00000071
> KC6VVT>WIDE4-1 <UI,APRS,W6KRW-2*:>252322Z APRS846 up
> KH2Z>WIDE2 <UI,AP5199,W6KRW-2*:=3401.41N/11709.45WbAPRS+SA Inet=Yes Uptime=003:06:04:42
```

The last 4 are in Southern California.

Here is my guess at what is happen'in:

An station with an AEA TNC is connected to the Internet and has equivalent of the Kantronics MCOM turned on. I don't know what the command would be.

Take the last packet above whose callsign I recognize. I suspect on receive, that this is what the packet really looked like:

```
KH2Z>W6KRW-2*>WIDE2>AP5199 <UI>:=3401.41N/11709.45WbAPRS+SA Inet=Yes Uptime=003:06:04:42
```

Now on parsing, the receiving station separated the header and the data portions. The header would just be

```
KH2Z>W6KRW-2*>WIDE2>AP5199 <UI>
```

Seeing that it has multiple ">" in the header, the receiving software attempts to convert to TAPR-2 format. How it got to the final format I don't know. What would the software assume as the TO field? UI? AP5199 <UI? It looks like it thinks WIDE2 <UI is the TO path. But still, the construct is "interesting".

Comments: I don't know where these packets are coming from. I think that packets should be sent to APRServe/APRSd unmodified. The software I am most familiar with, APRS+SA, sends unmodified packets except for Mic-E. In the original form, APRS+SA would have decoded the packet correctly. In the munged form, APRS+SA would have decoded the packet, but the TO field would be as specified, WIDE <UI. So, where are these packets coming from?

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211. [aprssig] Re: Bad Data: Update Sunday 4 June - I changed my mind

From: "Brent Hildebrand" <bhildebrand@earthlink.net>
Date: Sun, 4 Jun 2000 07:49:51 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88541-2000.06.04-09.52.47--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

----- Original Message -----

From: Ian Wade <Ian.Wade@care4free.net>
To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Sent: Sunday, June 04, 2000 2:05 AM
Subject: [aprssig] Bad Data: Update Sunday 4 June

> Earlier today (Sunday 4 June at around 0100-0130 CDT) I logged about 7000 packets from
> www.aprs.net:23. Things look a lot cleaner now, but there are still a few rogues (some lines

```
> truncated here as they are too long):
>
> Extraneous UI in Headers
> =====
> KC5WBG>N5IUT* <UI,APW240,KA0ARS:_06040711c142s006g006t077r000p000P000h93b10100wRSW
> KA0ARS>WIDE <UI C,APZ16,N5IUT*:!2608.46N/09750.06W#PHG9560/WIDE...LaFeria TX APRS DIGIPEATER
> N5YK>N5IUT* <UI,APW245,KA0ARS:=2629.00N/09742.00W_PHG0000/WinAPRS 2.4.5 -245-<530>
> KM5CA-5>WIDE <UI,APW245,N5IUT*:_06031918c151s001g010t076r000p000P000h86b00000wDAV
> KB5LDY-2>WIDE <UI,APRS,N5IUT*:_2942.20NN09524.20W#PHG5560 TxMedCntr ARES2 chacker@utpsph.sph
> KF6SWI>WIDE4-1 <UI,GPSLK,W6KRW-2*:$GPRMC,061934,A,3432.8884,N,11803.2958,W,000.0,170.9,04060
> W6APA-2>WIDE3 <UI,GPSC63,W6KRW-2*:$ULTW00970039028E017B---000086A000010000009B016D00000071
> KC6VVT>WIDE4-1 <UI,APRS,W6KRW-2*:>252322z APRS846 up
> KH2Z>WIDE2 <UI,APS199,W6KRW-2*:=3401.41N/11709.45WbAPRS+SA Inet=Yes Uptime=003:06:04:42
>
```

I CHANGED MY MIND.

The original packet was not necessarily an AEA packet. Assume it was this:
KH2Z>APS199,W6KRW-2*,WIDE2 <UI>:=3401.41N/11709.45WbAPRS+SA Inet=Yes Uptime=003:06:04:42

Perhaps the decoding station, saw there was more than one ">" in the header, then it would have assumed that the TO field was really "WIDE2 <UI", and reconstructed the packet like this:
KH2Z>WIDE2 <UI,APS199,W6KRW-2*:=3401.41N/11709.45WbAPRS+SA Inet=Yes Uptime=003:06:04:42

Still, the construct is interesting.
APRS+SA comments, APRS+SA would have decoded the packet. It would have gotten the TO field correct as APS199. But, it would not have correctly decoded the path. The packet it would have gated to RF would have been the packet as received. It would not have been modified.

Brent KH2Z

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To unsubscribe send a blank email to leave-aprssi-842K@lists.tapr.org

212. [aprssi] Maryland maps

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 4 Jun 2000 11:20:08 -0400 (EDT)
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>
Message-ID: <LYR842-88546-2000.06.04-10.23.31--lyris.aprssi#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I just did a small fix to the DOS maps for Maryland and they are posted as
MDmaps09.zip

<ftp://tapr.org/aprssi/dosstuff/APRSdos/mdmaps09.zip>

Users must already have loaded the EAS maps (latest is Emaps28.zip) for this to work right..

de WB4APR, Bob

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To unsubscribe send a blank email to leave-aprssi-842K@lists.tapr.org

213. [aprssi] Re: Speed Data From Garmin GPS-35 PC

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 4 Jun 2000 11:21:44 -0400 (EDT)
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssi@lists.tapr.org>
Message-ID: <LYR842-88547-2000.06.04-10.24.39--lyris.aprssi#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On Sun, 4 Jun 2000, Larry Zanella wrote:

```
> The speed data being reported by my Garmin PCS-35 PC is consistently LOW by
> about 15 to 20% or so. Is this because it always assumes a straight line
> and also that the calculation is performed at less than once per second?
```

Speed is in Knots unless stated otherwise. 70 MPH = 60 Knots

bob

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214. [aprssig] Re: Speed Data From Garmin GPS-35 PC

From: Gerry Creager N5JXS <gerry@cs.tamu.edu>
Date: Sun, 04 Jun 2000 12:38:43 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Message-ID: <LYR842-88558-2000.06.04-12.42.12--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Bob Bruninga wrote:

>

> On Sun, 4 Jun 2000, Larry Zanella wrote:

>

> > The speed data being reported by my Garmin PCS-35 PC is consistently LOW by
> > about 15 to 20% or so. Is this because it always assumes a straight line
> > and also that the calculation is performed at less than once per second?

>

> Speed is in Knots unless stated otherwise. 70 MPH = 60 Knots

Good catch. I'd forgotten about that. That looks like 11.5% to me.

73, gerry

--

Gerry Creager	gerry@cs.tamu.edu, gerry@page4.cs.tamu.edu
Network Engineering	Geodesy
Computer Science Department	Satellite Geodesy and Control
Texas A&M University	
979.458.4020	

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215. [aprssig] Re: Speed Data From Garmin GPS-35 PC

From: "Ben Pollard" <ws5r@arrl.net>
Date: Sun, 4 Jun 2000 12:46:14 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88559-2000.06.04-12.50.30--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I see the same thing on my Garmin 12, so my question is, is there any way to change it?

73,

Ben

----- > > On Sun, 4 Jun 2000, Larry Zanella wrote:

> >

> > > The speed data being reported by my Garmin PCS-35 PC is consistently LOW by

> > > about 15 to 20% or so. Is this because it always assumes a straight line

> > > and also that the calculation is performed at less than once per second?

> >

> > Speed is in Knots unless stated otherwise. 70 MPH = 60 Knots

>

> Good catch. I'd forgotten about that. That looks like 11.5% to me.

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

216. [aprssig] Garmin 12 for \$99.95

From: "Ben Pollard" <ws5r@arrl.net>
Date: Sun, 4 Jun 2000 12:48:20 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88560-2000.06.04-12.52.37--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Was at the local Best Buy today and see they are selling the garmin 12 for \$99.95 regular price. Not a bad deal for a GPS with a display and NEMA output. Have had mine online 24/7 from the mobile for 2 years without a hitch.

73,
Ben
WS5R

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217. [aprssig] Re: Bad Data: Update Sunday 4 June

From: "Jim Gill" <gillj@uswest.net>
Date: Sun, 4 Jun 2000 13:28:23 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88574-2000.06.04-13.31.57--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Yes, Ian, I run wapr 2.4.6. I was Igating in the early morning due to severe storms in the area. I run with MXMIT on, so this may have something to do with it. I will turn off MXMIT and see if that solves the problem.

When WinAPRS causes the TNC to transmit (such as on my posit, wx, msg, or relay digipeat), the data _with no path_ shows up in the history list, with MXMIT on or off. With MXM on, the next line you'll see is the "formed" packet with path info as I transmitted it, but with MXM off, the next one you would see would be the digipeated packet as normal.

So I have _always_ seen the headerless packets from my own station in the history list with all versions of winaprs, but with the Igate ON it must have thought these were valid packets to pass to TCP. Also, I was not running AFilter at the time because I was dealing with bugs where no stations would pass the filter with one setting, and too many past the distance filter would be passed the other way. I will try to get AF1.1.5 and try again before Igating again.

Jim Gill NØRMO Omaha Neb

----- Original Message -----

From: "Ian Wade" <Ian.Wade@care4free.net>
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Sent: Sunday, June 04, 2000 4:05 AM
Subject: [aprssig] Bad Data: Update Sunday 4 June

> Earlier today (Sunday 4 June at around 0100-0130 CDT) I logged about 7000 packets from
> www.aprs.net:23. Things look a lot cleaner now, but there are still a few rogues (some lines
> truncated here as they are too long):
> I've just realized: I think the packets with missing headers come from
> stations running APW246. Is that the root cause of the problem?
> Record #3663
> NØRMO>APW246,TCPiP*: _06040626c159s008g008t071r000p000P000h16b10140wRSW
> [*** THIS IS OK, BUT SEE THE NEXT ONE]
> Record #3664
> _06040626c159s008g008t071r000p000P000h16b10140wRSW
> **BAD PACKET. No path. Bailing out.
> [*** IS THIS FROM NØRMO? THE WX DATA MATCHES THE PREVIOUS
PACKET]
> Record #3665
> WØNWS :ack062
> **WARNING: Extraneous TNC status information/junk in header
> APRS Data Type= (** Beacon, not APRS)
> [*** IS THIS FROM NØRMO? SEE NEXT PACKET]
> Record #4428
> WØNWS>APW244,KØBOY-1*,WIDE/1::NØRMO :North Platte just issued a svr
tstrm for Lincoln
> county{062
> APRS Data Type= Message

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218. [aprssig] Another hit

From: "Ray J. Vaughan" <ray@rayvaughan.com>
Date: Sun, 04 Jun 2000 14:42:45 -0400
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Message-ID: <LYR842-88579-2000.06.04-13.45.41--lyris.aprssid#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I just got another fatal hit at 14:38 Eastern. Anyone happen to catch it?

Ray J. Vaughan, MS, CBTE, CERT
KD4BBM PG-7-15266
<http://www.rayvaughan.com/>
ray@rayvaughan.com
ray@2-way.com

You are currently subscribed to aprssid as: lyris.aprssid@tapr.org
To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org

219. [aprssid] Re: Another hit

From: Robbie Robertson <mrobertson@mediaone.net>
Date: Sun, 04 Jun 2000 13:49:57 -0500
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssid@lists.tapr.org>
Message-ID: <LYR842-88584-2000.06.04-13.54.38--lyris.aprssid#tapr.org@lists.tapr.org>
Rendered body type: text/plain

"Ray J. Vaughan" wrote:

>
> I just got another fatal hit at 14:38 Eastern. Anyone happen to catch it?
>
> Ray J. Vaughan, MS, CBTE, CERT
> KD4BBM PG-7-15266
> <http://www.rayvaughan.com/>
> ray@rayvaughan.com
> ray@2-way.com
>

Yep, same thing at the same time!!! Otherwise, my 2.4.6 had
been running for two days here!

Robbie

You are currently subscribed to aprssid as: lyris.aprssid@tapr.org
To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org

220. [aprssid] Re: Another hit

From: David VanHorn <dvanhorn@cedar.net>
Date: Sun, 04 Jun 2000 13:43:27 -0700
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Message-ID: <LYR842-88588-2000.06.04-14.01.01--lyris.aprssid#tapr.org@lists.tapr.org>
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

At 02:42 PM 6/4/00 -0400, Ray J. Vaughan wrote:
>I just got another fatal hit at 14:38 Eastern. Anyone happen to catch it?

Got me too.

- - -

Are you an ISP? Tired of spam?
www.spamwhack.com A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----
Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUB0Tq/b4F1GDz116VWEQJCigCgqqJu7QJexJx1JR/fxgC8UXAaJ2UAoKeg
8ppw+0Sey0XYWIIxRyZUq9I7
=QMt8
-----END PGP SIGNATURE-----

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To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org

221. [aprssig] Re: Wx Parcing

From: "Jim Gill" <gillj@uswest.net>
Date: Sun, 4 Jun 2000 13:59:27 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88589-2000.06.04-14.03.27--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Roy, what APRS software do you run? You can get the SAME coded county files for WinAPRS at <http://home.att.net/~kg5qdl/Maps.html> .

This is really only helpful, of course, if you are running WinAPRS... unless someone can publish a cross-reference list. When I'm reverse-gating these warnings out to VHF, D7/D700 ops won't know the counties by number as you are running into. When WinAPRS is running, you'll see the translated county names in the NWS-Counties list if you have the zone files installed.

Jim NØRMO
Omaha NE

----- Original Message -----

From: "Roy Bost" <rbost@itexas.net>
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Sent: Sunday, June 04, 2000 8:07 AM
Subject: [aprssig] Wx Parcing

> Is there a Wx advisory parcing program out there that will substitute
> county names for SAME codes? Someone locally is sending out Wx Advisories
> that list only SAME codes. To me this makes the WX advisories pointless
as
> no one knows what areas are being affected by the advisories.

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222. [aprssig] RE: Speed Data From Garmin GPS-35 PC

From: "Zanella, Larry" <larry.zanella@attws.com>
Date: Sun, 4 Jun 2000 12:04:27 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Message-ID: <LYR842-88590-2000.06.04-14.07.57--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Bob,

Is there an optiopnal setting in winAPRS to convert from Knots and display in MPH?

Larry Zanella
WA7LZO

From: Bob Bruninga [SMTP:bruninga@nadn.navy.mil]
Sent: Sunday, June 04, 2000 8:22 AM
To: Larry Zanella
Cc: TAPR APRS Special Interest Group
Subject: Re: [aprssig] Speed Data From Garmin GPS-35 PC

On Sun, 4 Jun 2000, Larry Zanella wrote:

> The speed data being reported by my Garmin PCS-35 PC is
consistently LOW by
> about 15 to 20% or so. Is this because it always assumes a
straight line
> and also that the calculation is performed at less than once per
second?

Speed is in Knots unless stated otherwise. 70 MPH = 60 Knots

bob

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223. [aprssig] WinAPRS 2.4.6 and D700/D7 position errors

From: Keith Sproul <ksproul@vger.rutgers.edu>
Date: Sun, 4 Jun 2000 15:15:54 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88591-2000.06.04-14.20.04--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

We are working on the problem. It stems from trying to decode the AMBIGUITY in the D700 and messing something up on that end..

I need someone that is seeing these errors to contact me ASAP so we can verify that it is indeed fixed before we release a new version..

If you are REGULARLY seeing these errors and can quickly put up a new version if we send it to you, please contact me.. either by email, or better yet, call me.

Keith
732 821-4828
Keith Sproul
Student Housing Network Coordinator
mailto:ksproul@rci.rutgers.edu
http://dorm.rutgers.edu/~ksproul/
732 445-3695 Office
732 445-2968 Fax
732 821-4828 Home
WU2Z

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

224. [aprssig] Create Map Track From Selected Mobile

From: "Larry Zanella" <larry.zanella@attws.com>
Date: Sun, 4 Jun 2000 14:21:24
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88592-2000.06.04-14.24.14--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Suppose that you leave your winAPRS station on continuously (7x24)...

Assuming that any given log is not full, is it possible to select a specific station in the Station List and command winAPRS to draw a track on a PM map to show where this particular vehicle was (e.g., trace its route on a PM)?

Seems like all the data is there to do this (assuming the selected station had its beacon on over this time period, obviously) and it should even be able to note where the vehicle stopped, and for how long, along the route track.

Larry Zanella
WA7LZO

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

225. [aprssig] Follow-up Question To Car Track Question

From: "Larry Zanella" <larry.zanella@attws.com>
Date: Sun, 4 Jun 2000 14:30:26
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88593-2000.06.04-14.33.15--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

By way of follow-up to my question around tracing a route of a selected station in the station list...

I had asked if a route could subsequently be traced on a PM based on logged data in the station list so one could see the movement (as well as stopping events) along a course driven by a selected station.

My follow-up question is this:

If this is possible in general, could one put parameters on this capability so as to create a time window over which the track should be drawn? In other words, I believe I had originally asked about a 24 hour trace of the vehicle's route on a PM. But, what about selecting a time, say a 1 or 2 or 3 hour window, and requesting just a trace for that time period. Obviously, it would be ideal to have total flexibility so one could specify the time interval from, say, 1 minute to 24 hours, and request a trace map on

whatever time window of interest might be selected, given any specified start time.

Larry Zanella
WA7LZO

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226. [aprssig] Re: Create Map Track From Selected Mobile

From: Robbie Robertson <mwrobertson@mediaone.net>
Date: Sun, 04 Jun 2000 14:30:14 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Message-ID: <LYR842-88594-2000.06.04-14.34.59--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Larry Zanella wrote:

>
> Suppose that you leave your winAPRS station on continuously (7x24)...
>
> Assuming that any given log is not full, is it possible to select a
> specific station in the Station List and command winAPRS to draw a track on
> a PM map to show where this particular vehicle was (e.g., trace its route on
> a PM)?
>
> Seems like all the data is there to do this (assuming the selected station
> had its beacon on over this time period, obviously) and it should even be
> able to note where the vehicle stopped, and for how long, along the route
> track.
>
> Larry Zanella
> WA7LZO
>

Yep, click on the mobile in question, and type r on the keyboard. If you want to save this information for later display, double click on said mobile, then File/Save after you get the data displayed..

These commands are detailed in the Help files.. Good luck

Robbie

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227. [aprssig] RE: Create Map Track From Selected Mobile

From: "Zanella, Larry" <larry.zanella@attws.com>
Date: Sun, 4 Jun 2000 12:39:12 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Message-ID: <LYR842-88595-2000.06.04-14.42.20--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I typed r and hit return. This simply took me to the display log of this mobile.

It did NOT display/trace the vehicle's route on the Precision Map.

Larry

From: Robbie Robertson [SMTP:mwrobertson@mediaone.net]
Sent: Sunday, June 04, 2000 12:30 PM
To: Larry Zanella
Cc: TAPR APRS Special Interest Group
Subject: Re: [aprssig] Create Map Track From Selected Mobile

Larry Zanella wrote:

>
> Suppose that you leave your winAPRS station on continuously
(7x24)...
>
> Assuming that any given log is not full, is it possible to select
a
> specific station in the Station List and command winAPRS to draw a

track on
> a PM map to show where this particular vehicle was (e.g., trace its
route on
> a PM)?
>
> Seems like all the data is there to do this (assuming the selected
station
> had its beacon on over this time period, obviously) and it should
even be
> able to note where the vehicle stopped, and for how long, along
the route
> track.
>
> Larry Zanella
> WA7LZO
>

Yep, click on the mobile in question, and type r on the
keyboard. If you want to save this information for later
display, double click on said mobile, then File/Save after
you get the data displayed..

These commands are detailed in the Help files.. Good luck

Robbie

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
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228. [aprssig] What ver Precision Map?

From: "Nick Critelli" <k0pcg@CritelliLaw.com>
Date: Sun, 4 Jun 2000 14:36:37 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88596-2000.06.04-14.42.57--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Running WinAprs 2.4.5....what version of Precision Mapping do I need. The
new version is No. 4 but I have heard that it will not work with 2.4.5. If
an older version will work, where do you get it?

Nick K0PCG

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
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229. [aprssig] RE: Create Map Track From Selected Mobile

From: Robbie Robertson <mwrobertson@mediaone.net>
Date: Sun, 04 Jun 2000 14:52:03 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Message-ID: <LYR842-88598-2000.06.04-14.56.41--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Larry,

Re-read what I said to do..

1. Left click on the mobile in question.
2. Hit the r key on the keyboard.. "little r that is", you
don't need to hit Return.

To save the data of a given mobile, double click the the
left button.
This gives you a total display of the mobiles positions in
another screen. Now click File/Save at the top of the
screen, and then you can recall this replay from
File/Simulate at any other time you choose.

Good luck,

Robbie

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230. [aprssig] X-Aprs

From: Robbie Robertson <mwrobertson@mediaone.net>
Date: Sun, 04 Jun 2000 14:55:51 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88599-2000.06.04-15.00.31--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi siggers,

Is X-aprs still Beta and not really functional? It seems to run me outta memory loading up screens for each Map in Maps?

Thanks,

Robbie

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231. [aprssig] Re: What ver Precision Map?

From: "Jim Gill" <gillj@uswest.net>
Date: Sun, 4 Jun 2000 14:58:36 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: <aprssig@tapr.org>
Message-ID: <LYR842-88600-2000.06.04-15.03.02--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

----- Original Message -----

From: "Nick Critelli" <k0pcg@CritelliLaw.com>
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Sent: Sunday, June 04, 2000 2:36 PM
Subject: [aprssig] What ver Precision Map?
> Running WinAprs 2.4.5...what version of Precision Mapping do I need. The
> new version is No. 4 but I have heard that it will not work with 2.4.5.
If
> an older version will work, where do you get it?
> Nick K0PCG

This was just on the sig last week...

----- Original Message -----

From: "Keith Sproul" <ksproul@vger.rutgers.edu>
To: "TAPR Hot Technology APRS" <htaprs@lists.tapr.org>
Sent: Wednesday, May 31, 2000 9:24 PM
Subject: [htaprs] Re: Precision Mapping
> From Chicago Maps:
>
> > Yes, we still have Precision Mapping Streets 3.5 available. The price
is
> > \$9.99
> > plus \$5.95 for shipping and handling. Please call 800-257-9244 to
order.
> Keith Sproul 732 445-3695 Office
> Student Housing Network Coordinator 732 445-2968 Fax
> <mailto:ksproul@rci.rutgers.edu> 732 821-4828 Home
> <http://dorm.rutgers.edu/~ksproul/> WU2Z

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232. [aprssig] Auto and Manual Track

From: "Larry Zanella" <larry.zanella@attws.com>
Date: Sun, 4 Jun 2000 15:6:12
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88601-2000.06.04-15.09.02--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

How do you turn on Auto Track?

How do you turn on Manual Track? I tried to hit "T" for my mobile station in the Station log, but it refuses to set "T." I can togle the flagged setting ("F") on and off in the Station Log, but I can NOT get any Mobile

to be set as Tracked (T) in the station log.

In the Station Log, I can see my QTH (WA7LZO-15) and my mobile (WA7LZO-1). However, when I try to "find" WA7LZO-1, it always goes to WA7LZO-15. Why?

Larry WA7LZO

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233. [aprssig] Re: What ver Precision Map?

From: "Larry Zanella" <larry.zanella@attws.com>
Date: Sun, 4 Jun 2000 15:12:1
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88602-2000.06.04-15.14.53--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On 06/04/00, "'Nick Critelli" <k0pcg@CritelliLaw.com>" wrote:
> Running WinAprs 2.4.5...what version of Precision Mapping do I need. The
> new version is No. 4 but I have heard that it will not work with 2.4.5. If
> an older version will work, where do you get it?
>
> Nick K0PCG

I just spoke to Chicago Precison Map on the phone this past Thursday. They said they no longer have V 3.5 available. Other than their current V 4.0, the only previous version they have available is V 3.0, which I purchased.

The problem here is that according to what PM told me on the phone, the mapping data in V 3.0 is well over 5 years old---very out of date, but now there is no choice. I pleaded with them to sell me V 3.5, but they absolutely insisted No.

Larry

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234. [aprssig] Re: X-Aprs

From: Keith Sproul <ksproul@vger.rutgers.edu>
Date: Sun, 4 Jun 2000 16:10:53 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: aprssig@lists.tapr.org
Message-ID: <LYR842-88603-2000.06.04-15.15.20--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

X-APRS is making LOTS of progress... It should be finished 100% by the end of the month

He will release a new version when we get back from vacation.

Keith Sproul

>Hi siggers,
>
>Is X-aprs still Beta and not really functional? It seems to
>run me outta memory loading up screens for each Map in Maps?
>
>Thanks,
>
>Robbie
>
>---
>You are currently subscribed to aprssig as: KSPROUL@VGER.RUTGERS.EDU
>To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

Keith Sproul 732 445-3695 Office
Student Housing Network Coordinator 732 445-2968 Fax
mailto:ksproul@rci.rutgers.edu 732 821-4828 Home
http://dorm.rutgers.edu/~ksproul/ WU2Z

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235. [aprssig] Re: Wx Parcing

From: rbost@itexas.net (Roy Bost)
Date: Sun, 4 Jun 2000 15:13:04 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88609-2000.06.04-15.16.04--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I run WinAPRS 2.4.6. What I was referring to are the Wx beacons that are being broadcast with only SAME codes. As far as me personally, I use a RS Wx monitor that only alarms on the counties that I have selected. Without the county names what good are the Wx broadcasts? I use PM3.0 so I don't see any of the fancy weather stuff on the maps. What I do see is a lot of bulletins being broadcast that don't seem (to me) to be very useful.

Roy Bost N5TAM
rbost@itexas.net

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236. [aprssig] Re: Another hit

From: "Dick Stanich" <dstanic@c2i2.com>
Date: Sun, 4 Jun 2000 15:26:53
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88616-2000.06.04-15.29.44--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On 06/04/00, "Ray J. Vaughan" <ray@rayvaughan.com> wrote:
> I just got another fatal hit at 14:38 Eastern. Anyone happen to catch it?
>
> Ray J. Vaughan, MS, CBTE, CERT
> KD4BBM PG-7-15266
> <http://www.rayvaughan.com/>
> ray@rayvaughan.com
> ray@2-way.com

Figured that a Sunday would be a good day to run my error logging. I missed the first you are talking about because I was only screening within a 500 mile circle of my location. So, I increased the range to 3500 miles. If you got the second 'unhandled exception error' that happened between 19:30 and 19:55 UTC. I have logging the 25 errors (stations) just before Winaprs crashed. Saved it to a file.

Now the question is... what do I do with the file? I don't think it a good idea to publish it here.

Dick, KB7ZVA
mailto:dstanic@c2i2.com
Southwest Arizona APRS Group

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
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237. [aprssig] Maps for Kansas

From: "John D. Atkin, IV, NREMT" <jdaivpmed@aol.com>
Date: Sun, 4 Jun 2000 15:31:19
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88617-2000.06.04-15.34.10--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Just wondering if anyone out there knows of a source for high quality maps for the southeast kansas area. I would like to use maps such as those in Street Atlas however I'm setting up a mobile system using the "citadel" computers I'm sure you're familiar with and since they're DOS machines they won't support Street Atlas. Thanks for any info anyone can provide.
John

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238. [aprssig] Re: Bad Data: Update Sunday 4 June

From: Skip Allison <sallison@megsinet.net>
Date: Sun, 04 Jun 2000 15:31:18 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Message-ID: <LYR842-88618-2000.06.04-15.34.59--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I haven't been able to get into www.aprs.net:23 for a couple days. When I try from WinAPRS 2.4.3 it just says TCP open failed. Anybody know what's going on?

Skip
K9SA

Ian Wade wrote:

```
>
> Earlier today (Sunday 4 June at around 0100-0130 CDT) I logged about 7000 packets from
> www.aprs.net:23. Things look a lot cleaner now, but there are still a few rogues (some lines
> truncated here as they are too long):
>
> Extraneous UI in Headers
> =====
> KC5WBG>N5IUT* <UI,APW240,KA0ARS: 06040711c142s006g006t077r000p000P000h93b10100wRSW
> KA0ARS>WIDE <UI C,APZ16,N5IUT*:!2608.46N/09750.06W#PHG9560/WIDE...LaFeria TX APRS DIGIPEATER
> N5YK>N5IUT* <UI,APW245,KA0ARS:=2629.00N/09742.00W PHG0000/WinAPRS 2.4.5 -245-<530>
> KM5CA-5>WIDE <UI,APW245,N5IUT*: 06031918c151s001g010t076r000p000P000h86b00000wDAV
> KB5LDY-2>WIDE <UI,APRS,N5IUT*:!2942.20NN09524.20W#PHG5560 TxMedCntr ARES2 chacker@utpsph.sph
> KF6SWI>WIDE4-1 <UI,GPSLK,W6KRW-2*:$GPRMC,061934,A,3432.8884,N,11803.2958,W,000.0,170.9,04060
> W6APA-2>WIDE3 <UI,GPSC63,W6KRW-2*:$ULTW00970039028E017B----000086A000010000009B016D00000071
> KC6VVT>WIDE4-1 <UI,APRS,W6KRW-2*:>252322z APRS846 up
> KH2Z>WIDE2 <UI,APS199,W6KRW-2*:=3401.41N/11709.45WbAPRS+SA Inet=Yes Uptime=003:06:04:42
>
> "Strange" Callsigns and "SSID"s
> =====
>
> -----
> Record #117
> KB2EAR-IP>APW246,TCPIP*:=4025.26N/07433.91WZ -246-<530>
> **WARNING: Invalid SSID in callsign 'KB2EAR-IP'
> APRS Data Type= Posit w/o time. With APRS
> Lat= 40 deg 25.26 min N Long= 74 deg 33.91 min W
> Icon= WinAPRS Overlay= (none)
>
> -----
> Record #234
> W3FJK-QTH>APW245,TCPIP*:=4034.01N/07958.01WZPHG2000/WinAPRS 2.4.5 -PAALLHAMPTON -245-<530>
> **WARNING: Invalid SSID in callsign 'W3FJK-QTH'
> APRS Data Type= Posit w/o time. With APRS
> Lat= 40 deg 34.01 min N Long= 79 deg 58.01 min W
> Icon= WinAPRS Overlay= (none)
> Power= 4 watts Height above average terrain= 10 feet (3.0 meters)
> Gain= 0 dB Range Circle= 3.0 miles (4.8 km) Directivity= Omni-directional
>
> -----
> Record #2360
> WA4TKG>AA4QI-1,W4IZ-1*,WIDE3-2:!3016.53N/08126.23W& WinAPRS QRT @032146z
> **WARNING: Non-zero APRS Digipeater Path= WIDE1-1
> APRS Data Type= Posit w/o time. No APRS
> Lat= 30 deg 16.53 min N Long= 81 deg 26.23 min W
> Icon= HF Gateway Overlay= (none)
>
> -----
> Record #3206
> KE4NFJ-34>APZ032,TCPIP*:=/:p6{;#I'x{%CXASTIR-Linux {G.Stueve@IEEE.Org}
> **WARNING: Invalid SSID in callsign 'KE4NFJ-34'
> APRS Data Type= Posit w/o time. With APRS
> Lat= 38 deg 49.25 min N Long= 77 deg 01.46 min W
> Pre-Calculated Radio Range= 2.0 miles (3.2 km)
> GPS Fix= Current NMEA Source= Other Compression Origin= Software Compression
> Icon= X-APRS Unix Overlay= (none)
>
> -----
>
> Unexpected Destination
> =====
>
> -----
> Record #1074
> K8SCH-10>WIDE3-3,WIDE,TRACE6-6:!3905.92NN08438.69WmPHG7460/W-R-T OhKyIn ARS - MIC-E with the
> 146.925- repeater!
```



```

> **WARNING: Non-zero APRS Digipeater Path= WIDE3-3
> APRS Data Type= Posit w/o time. No APRS
> Lat= 39 deg 05.92 min N Long= 84 deg 38.69 min W
> Icon= Value Signpost Overlay= **BAD OVERLAY CHAR 'N' not allowed with this symbol
> Power= 49 watts Height above average terrain= 160 feet (48.8 meters)
> Gain= 6 dB Range Circle= 31.6 miles (50.9 km) Directivity= Omni-directional
>
> -----
>
> Missing Header
> =====
>
> These are very strange.
>
> -----
> Record #2562
> K9APR>APW246,K4DMU-10*,WIDE5-1::KD4EVB :I run 2.4.6 here no problems yet.{004
> APRS Data Type= Message
> [*** THIS IS OK, BUT SEE THE NEXT ONE]
>
> -----
> Record #2575
> }K9APR>APW246,K4DMU-10*,WIDE5-1::KD4EVB :I run 2.4.6 here no problems yet.{004
> **WARNING: Invalid callsign 'K9APR'
> APRS Data Type= Message
> [*** THIS LOOKS LIKE A THIRD-PARTY REPEAT OF THE ABOVE, BUT
> WITH THE HEADER MISSING]
>
> -----
> Record #3663
> N0RMO>APW246,TCPIP*: _06040626c159s008g008t071r000p000P000h16b10140wRSW
> APRS Data Type= Positionless WX Station
> Date= 04 Jun Time= 06 hours 26 mins UTC
> Wind Direction= 159 deg Speed= 008 mph (12.9 kph 3.6 m/s 7.0 knots)
> Gust Speed= 8 mph (12.9 kph 3.6 m/s 7.0 knots)
> Temp= 71 degF (21.7 degC) Windchill= 67.6 degF (19.8 degC)
> Rain: Last hour= 0 in (0.0 mm) Last 24 hrs= 0 in (0.0 mm)
> Since midnight= 0 in (0.0 mm)
> Humidity= 16 percent Dew Point= 22.6 degF (-5.2 degC)
> Barometric Pressure= 1014 mbar/hP
> [*** THIS IS OK, BUT SEE THE NEXT ONE]
>
> -----
> Record #3664
> _06040626c159s008g008t071r000p000P000h16b10140wRSW
> **BAD PACKET. No path. Bailing out.
> [*** IS THIS FROM N0RMO? THE WX DATA MATCHES THE PREVIOUS PACKET]
>
> -----
> Record #3665
> W0NWS :ack062
> **WARNING: Extraneous TNC status information/junk in header
> APRS Data Type= (** Beacon, not APRS)
>
> [*** IS THIS FROM N0RMO? SEE NEXT PACKET]
> -----
> Record #4428
> W0NWS>APW244,K0BOY-1*,WIDE/1::N0RMO :North Platte just issued a svr tstrm for Lincoln
> county{062
> APRS Data Type= Message
>
> -----
>
> 73
> Ian, G3NRW
> Technical Editor, APRS Protocol Specification
> ***** Third draft now available *****
> --
> +-----+
> | APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
> | email: g3nrw@arrl.net |
> | |
> | APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
> | APRS DECODER: http://www.netro.co.uk/aprs.htm |
> +-----+
>
> ---
> You are currently subscribed to aprssig as: sallison@megsinet.net
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

```

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
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239. [aprssig] Re: Bad Data: Update Sunday 4 June - I changed my mind

From: Roger Barker <roger@peaksys.co.uk>
Date: Sun, 4 Jun 2000 21:35:49 +0100
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88619-2000.06.04-15.39.04--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

In article <LYR1643-88541-2000.06.04-09.52.47--ROGER#PEAKSYS.CO.UK@lists.tapr.org>, Brent Hildebrand <bhildebrand@earthlink.net> writes
[snip]
>Perhaps the decoding station, saw there was more then one ">" in the header,
>then it would have assumed that the T0 field was really "WIDE2 <UI", and
>reconstructed the packet like this:
>KH2Z>WIDE2 <UI,APS199,W6KRW-2*:=3401.41N/11709.45WbAPRS+SA Inet=Yes
>Uptime=003:06:04:42
[snip]

Yes, but surely no program would do that, because if it did, then it would be constructing an AX25 destination address that it should know was invalid.

It's an example of the basic error checking that any application should be doing. It's nice to think that the input will always be perfect, but in the real world you know it won't be. Isn't one of the main design goals of any software to create something that won't fall over, no matter what rubbish is thrown at it? As I 'm sure you appreciate, assuming a line of data is ok until it creates an error, and assuming it is not ok until you've validated it, represent two very different design philosophies.

As regards the original problem, it's just taken me less than five minutes to create a tcp/ip data stream that results in a steady series of "Unhandled exception: c0000005" errors in WinAPRS. In fact it was the first thing I tried, because checking for what happens when the expected terminator never arrives is a test that I've used for a long time on my own programs. Perhaps it's not the problem that everyone is complaining about, but it's certainly one way of creating the error - You just send it a data stream without any CR/LF's in it.

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

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240. [aprssig] RE: Speed Data From Garmin GPS-35 PC

From: Earl Needham <KD5XB@AMSAT.ORG>
Date: Sun, 04 Jun 2000 14:33:19 -0600
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88623-2000.06.04-15.41.35--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

At 12:04 PM 6/4/00 -0700, Zanella, Larry blasted the following out into the ether:
>Bob,
>
>Is there an optiopnal setting in winAPRS to convert from Knots and display
>in MPH?
>
>Larry Zanella
>WA7LZO

I believe you can. Check Display/Station Display Options and check the MPH spot.

7 3
Earl

Earl Needham, KD5XB <mailto:KD5XB@AMSAT.ORG>
Clovis, New Mexico DM84jk N34d 25.446m W103d 12.700m (or so)

PGP Key ID 0x00BF1A39

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

241. [aprssig] RE: Speed Data From Garmin GPS-35 PC

From: "Zanella, Larry" <larry.zanella@attws.com>
Date: Sun, 4 Jun 2000 13:42:56 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88625-2000.06.04-15.46.05--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I checked under Display, Station Display Options. It was set at MPH, so either this setting does not work, or something else is wrong (inaccurate) with the GPS-35 PC speed function.

Larry
WA7LZO

From: Earl Needham [SMTP:KD5XB@AMSAT.ORG]
Sent: Sunday, June 04, 2000 1:33 PM
To: Zanella, Larry; TAPR APRS Special Interest Group
Subject: Re: [aprssig] RE: Speed Data From Garmin GPS-35 PC

At 12:04 PM 6/4/00 -0700, Zanella, Larry blasted the following out into the

ether:

>Bob,

>

>Is there an optiopnal setting in winAPRS to convert from Knots and display

>in MPH?

>

>Larry Zanella

>WA7LZO

I believe you can. Check Display/Station Display Options and check the MPH spot.

7 3
Earl

Earl Needham, KD5XB <mailto:KD5XB@AMSAT.ORG>
Clovis, New Mexico DM84jk N34d 25.446m W103d 12.700m (or so)
PGP Key ID 0x00BF1A39

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

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242. [aprssig] Re: Wx Parcing

From: "Jim Gill" <gillj@uswest.net>
Date: Sun, 4 Jun 2000 15:48:49 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88628-2000.06.04-15.53.31--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

----- Original Message -----

From: "Roy Bost" <rhost@itexas.net>
To: "Jim Gill" <jimgill@ix.netcom.com>; "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Sent: Sunday, June 04, 2000 3:13 PM
Subject: Re: [aprssig] Re: Wx Parcing

> I run WinAPRS 2.4.6. What I was referring to are the Wx beacons that are
> being broadcast with only SAME codes.

You mean the automatically parsed EMWIN weather data that Dale Huguley is putting on TCP/IP? Again, WinAPRS decodes that with the right files.

> As far as me personally, I use a RS
> Wx monitor that only alarms on the counties that I have selected.

So then are you talking about NWS weather radio on 162.xxx Mhz?

> Without
> the county names what good are the Wx broadcasts?

Which weather broadcasts, the TCP data or the NWS weather radio? If TCP data (and those which are reverse-gated to VHF by your local stations), the county and zone numbers are from Dale's parser and are intended for decoding by WinAPRS stations with the proper configuration. The county names are imbedded in the numbered files for display in the NWS-Counties List.

If you are referring to NWS radio here, the weather radios that decode the SAME data alarm on only the counties you want (as it appears you have yours set up). So in that case, the county numbers are transparent and it shouldn't matter.

So it looks like you want to use the weather radio and the TCP data together... the weather radio goes off, you look in your message list and see all the numbered county data, and it doesn't make sense. Solution: download the county files.

> I use PM3.0 so I don't
> see any of the fancy weather stuff on the maps.

So download the numbered county/zone files from the site I gave you, and open another map window in WinAPRS with the USA & Major Roads map. You'll see the highlighted counties in that map. Double click on a highlighted county, and it will bring up the county name and the type of warning.

> What I do see is a lot of
> bulletins being broadcast that don't seem (to me) to be very useful.

The numbered-coded weather warnings do show up in the message list, as you have observed, but are intended only really for WinAPRS to parse and display using the coded county files. There are also a tremendous number of plain-text packets with storm specific text data that can be human-read from the message list. This stuff *is* immensely useful... but specifically so to WinAPRS users. Go download the numbered county files for YOUR NWS office coverage area from <http://kg5qd.home.att.net/>, open a second NON-PM map window, and see the highlighting.

If someone is reverse-gating warnings for specific NWS areas, then some mobiles in the field (Kenwoods, etc) can't really make use of the numbered format as you can see, but in your case you have WinAPRS so they are useful to you.

Is there someone out there who has compiled a cross-reference list of county names to numbered files for those that need it? If not, it would just take someone some time to run through the county files and compile them by hand.

Jim NØRMO

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243. [aprssig] Wx Parceing and Time Zones

From: "Dale Huguley" <kg5qd@worldnet.att.net>
Date: Sun, 4 Jun 2000 20:49:24 -0000
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88629-2000.06.04-15.53.51-lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi All-

Roy Bost Said:

> Without the county names what good are the Wx broadcasts? I use PM3.0 so
I don't
> see any of the fancy weather stuff on the maps. What I do see is a lot of
> bulletins being broadcast that don't seem (to me) to be very useful.

Examples:

```
FTWFFS>SKYW:NWS-ADVIS:042045z, FLOOD, TX_Z117, TX_Z118, TX_Z119, TX_Z120, TX_Z121,
{4JcAD
FTWFFS>SKYW:NWS-ADVIS:042045z, FLOOD, TX_Z122, TX_Z123, TX_Z129, TX_Z130, TX_Z131,
{4JCAE
```

Notice these were Flood Advisories sent to zones - not Counties. Some places zones are the same as a county, some not. I have not used the original names for counties in order to keep the manual and automatic systems completely separate. The last thing you want is something coming out of an unthinking computer interfering with an on-going skywarn situation, or an unthinking operator interfering with a properly parsed bulletin. If the bulletin is a WARNING- my output always has a tag with the County name fully spelled out as in:

```
ILMSVR>SKYW:NWS-WARN :042030z, SVRTSM, SC_C051, Horry County {4JiAA
```

This displays on a D700 at the beginning of the third line.

In Winaprs, clicking on a highlighted county/zone gives you the name at the top of the pop-up window.

If you are running PM- clicking on the "NWS-Counties" list and clicking on the "STATUS" header gives you the active warnings/advisories with the full name.

On another matter:

Jeff Brenton said:

```
>Given that the internet stream has NWS warnings available, but time zones
>are a problem, wouldn't it be prudent to move to an on-air format that uses
>UTC, rather than local time?
```

```
>You can still ENTER the data into WinAPRS in local time, and it can then
use
```

```
>the UTC-offset input into the system to convert those to UTC... The
>difference would be that the time in the broadcast would have a 'z'
appended
>to it, to differentiate it from the "old" format.
```

Exactly so- Winaprs has this implemented and works very well.

73 de kg5qd Dale

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244. [aprssig] Re: Bad Data: Update Sunday 4 June

From: Ray Vaughan <ray@rayvaughan.com>
Date: Sun, 04 Jun 2000 16:56:47 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88630-2000.06.04-16.00.04--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

At 03:31 PM 6/4/00 -0500, you wrote:

```
>I haven't been able to get into www.aprs.net:23 for a couple days. When
>I try from WinAPRS 2.4.3 it just says TCP open failed. Anybody know
>what's going on?
```

That server is here in Miami at the Museum of Science. I know Steve, K4HG, who owns and runs it is out of the state right now. So, if it's down, it may have to stay like that until he returns. Or there could be a network or T1 failure at the museum.

However, there are multiple servers, so any failure of one should be transparent to you. Steve and company have set up this network to be redundant. This weekend I've watched mine scan the servers until it finds one that's running, then stays on it. Right now I'm flying right along on the second server.

If you're using WinAPRS, edit your APRServe.txt file to include:

```
first.aprs.net 23      APRServe Network First
second.aprs.net 23     APRServe Network Second
```

Make sure there are tabs between the entries, not spaces.

Ray J. Vaughan, MS, CBTE, CERT
KD4BBM PG-7-15266
<http://www.rayvaughan.com/>
ray@rayvaughan.com
ray@2-way.com

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245. [aprssig] Re: What ver Precision Map?

From: Skip Allison <sallison@megsinet.net>
Date: Sun, 04 Jun 2000 15:57:25 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88631-2000.06.04-16.00.50--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I think the only difference between 3.0 and 3.5 is the ability to display travel info. They (Chicago Mapping) told me the database is the same for 3.0 and 3.5. 3.0 is loaded with errors. Not so much with the actual road information, but the names of all the towns are wrong. We, not all of them, but a lot of names are wrong, not there, or in the wrong place. Example - it shows Arlington Hts, IL near Springfield - about 200 miles from where it really is. Also shows Princeton, IL in Iowa. They tell me 4.0 is supposed to fix that. But I don't think 4.0 works with WinAPRS yet? Anybody know???

Skip
K9SA

Larry Zanella wrote:

>
> On 06/04/00, "Nick Critelli" <k0pcg@critelliLaw.com>" wrote:
> > Running WinAprs 2.4.5...what version of Precision Mapping do I need. The
> > new version is No. 4 but I have heard that it will not work with 2.4.5. If
> > an older version will work, where do you get it?
> >
> > Nick K0PCG
> >
> > I just spoke to Chicago Precison Map on the phone this past Thursday. They
> > said they no longer have V 3.5 available. Other than their current V 4.0,
> > the only previous version they have available is V 3.0, which I purchased.
> >
> > The problem here is that according to what PM told me on the phone, the
> > mapping data in V 3.0 is well over 5 years old---very out of date, but now
> > there is no choice. I pleaded with them to sell me V 3.5, but they
> > absolutely insisted No.
> >
> > Larry
> >
> > ---
> > You are currently subscribed to aprssig as: sallison@megsinet.net
> > To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

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246. [aprssig] How do you Quit the Sig?

From: Jim Bradbury <jim@bradbury.org>
Date: Sun, 04 Jun 2000 14:25:25 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88633-2000.06.04-16.28.17--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I went to the Tapr site and there serveral
APRS links for Joining various Sig News groups:

<http://www.tapr.org/tapr/html/sigf.html>

but there are no links for quitting.

How do you do it?

-- Jim --

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247. [aprssid] Re: Speed Data From Garmin GPS-35 PC

From: Skip Allison <sallison@megsinet.net>
Date: Sun, 04 Jun 2000 16:29:04 -0500
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Message-ID: <LYR842-88636-2000.06.04-16.32.27--lyris.aprssid#tapr.org@lists.tapr.org>
Rendered body type: text/plain

MPH is 15% higher. MPH = Knots * 1.15.

Skip
K9SA

Gerry Creager N5JXS wrote:

>
> Bob Bruninga wrote:
> >
> > On Sun, 4 Jun 2000, Larry Zanella wrote:
> >
> > > The speed data being reported by my Garmin PCS-35 PC is consistently LOW by
> > > about 15 to 20% or so. Is this because it always assumes a straight line
> > > and also that the calculation is performed at less than once per second?
> >
> > Speed is in Knots unless stated otherwise. 70 MPH = 60 Knots
>
> Good catch. I'd forgotten about that. That looks like 11.5% to me.
>
> 73, gerry
> --
> Gerry Creager gerry@cs.tamu.edu, gerry@page4.cs.tamu.edu
> Network Engineering |Geodesy
> Computer Science Department |Satellite Geodesy and Control
> Texas A&M University |
> 979.458.4020
>
> ---
> You are currently subscribed to aprssid as: sallison@megsinet.net
> To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org

You are currently subscribed to aprssid as: lyris.aprssid@tapr.org
To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org

248. [aprssid] Re: How do you Quit the Sig?

From: Bob Boehm <n8exf@juno.com>
Date: Sun, 4 Jun 2000 17:53:23 -0400
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Cc: aprssid@lists.tapr.org
Message-ID: <LYR842-88637-2000.06.04-16.56.49--lyris.aprssid#tapr.org@lists.tapr.org>
Rendered body type: text/plain

read the bottom line of the message you see...
there are unsubscribe instructions on every email.
Bob

On Sun, 04 Jun 2000 14:25:25 -0700 Jim Bradbury <jim@bradbury.org>
writes:
> I went to the Tapr site and there serveral
> APRS links for Joining various Sig News groups:
>
> <http://www.tapr.org/tapr/html/sigf.html>
>
> but there are no links for quitting.
>
> How do you do it?
>
> -- Jim --
>

YOU'RE PAYING TOO MUCH FOR THE INTERNET!
Juno now offers FREE Internet Access!
Try it today - there's no risk! For your FREE software, visit:
<http://dl.www.juno.com/get/tagj>.

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To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org

249. [aprssig] AEA PK-88 help

From: "Andrew Witham W1SAR" <w1sar@searcher.org>
Date: Sun, 4 Jun 2000 15:07:57 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88638-2000.06.04-17.14.01--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I am presently configuring a Citadel 486, Garmin GP-45, to work with a AEA PK-88 and a Radio Shack HTX-242, to use as a Field Day demo unit.

I believe that I have followed all the set-up instructions, and followed advice in trouble.txt, and hope that someone can put me right.

Documents say...

"TNC-TYPE: There are two basic types of TNC, the TAPR-2 clones and the AEA products. They display received packets differently. APRSdos is written around the TAPR-2 types such as TINY-2, MFJ, Kantronics, etc. All AEA packets are first converted into TAPR format within APRSdos, that is why it needs to know what type of TNC you are using. One CAUTION: The AEA PK80 is a TAPR-2 standard TNC, so if you use the PK80, then do *not* answer AEA as your type of TNC..."

Is a PK-88 TAPR-2 standard? What TNC option should I select with APRStch?

and

"AEA PRODUCTS: Since some of the AEA setup commands are different than the standard, you must tell APRS that you are using an AEA so that it will use the commands in InitAEA.TNC. Also, the AEA monitor format is different. In some early models of the PK-12, the monitor function was not correct. If you add the command BBSMSG ON to the InitAEA.TNC file, then the PK-12 will emulate the standard TAPR monitoring function and work properly."

As the PK-12 superceeded the PK-88, do I need BBSMSG ON in the InitAEA.TNC file (if indeed I need the AEA init file)?

I have no manual for the TNC, but have sourced configurations for the cables, so I don't think that there is a problem there. I have serial communications between the PC & the TNC, but I lack the experience to recognize if this 'looks right' or not.

Any and all suggestions gratefully received.

Drew W1SAR

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

250. [aprssig] Re: How do you Quit the Sig?

From: Wally Foster <wfoster@hsc.usc.edu>
Date: Sun, 04 Jun 2000 16:02:59 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Message-ID: <LYR842-88641-2000.06.04-18.07.01--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Jim, just read the few lines at the bottom of any aprssig message..

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

251. [aprssig] Re: What ver Precision Map?

From: Gun Steele W0GUN <w0gun@arri.net>
Date: Sun, 4 Jun 2000 19:01:24 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: <aprssig@tapr.org>
Message-ID: <LYR842-88647-2000.06.04-19.04.20--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Jim,

You mean I went to all the hassle of ordering PM 4.0 last night for nothing? Their site wouldn't complete the order, so Digital River emailed me and we finally completed the order over the phone. I felt pretty good about it until now! What is the problem with 4.0 use with WinAPRS?

Gun Steele W0GUN
GUNTRONICS
----- Original Message -----
From: "Jim Gill" <gillj@uswest.net>
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: <aprssig@tapr.org>
Sent: Sunday, June 04, 2000 2:58 PM
Subject: [aprssig] Re: What ver Precision Map?

> ----- Original Message -----
> From: "Nick Critelli" <k0pcg@CritelliLaw.com>
> To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
> Sent: Sunday, June 04, 2000 2:36 PM
> Subject: [aprssig] What ver Precision Map?
> > Running WinAprs 2.4.5....what version of Precision Mapping do I need.
The
> > new version is No. 4 but I have heard that it will not work with 2.4.5.
> If
> > an older version will work, where do you get it?
> > Nick K0PCG
>
>
> This was just on the sig last week...
>
>
> ----- Original Message -----
> From: "Keith Sproul" <ksproul@vger.rutgers.edu>
> To: "TAPR Hot Technology APRS" <htaprs@lists.tapr.org>
> Sent: Wednesday, May 31, 2000 9:24 PM
> Subject: [htaprs] Re: Precision Mapping
> > From Chicago Maps:
> >
> > > Yes, we still have Precision Mapping Streets 3.5 available. The price
> > is
> > > \$9.99
> > > plus \$5.95 for shipping and handling. Please call 800-257-9244 to
> > order.
> > Keith Sproul 732 445-3695 Office
> > Student Housing Network Coordinator 732 445-2968 Fax
> > mailto:ksproul@rci.rutgers.edu 732 821-4828 Home
> > http://dorm.rutgers.edu/~ksproul/ WU2Z
>
>
>
> ---
> You are currently subscribed to aprssig as: w0gun@arll.net
> To unsubscribe send a blank email to leave-aprssig-17048Q@lists.tapr.org

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

252. [aprssig] APRS Servers

From: Phillip Conza <phil@zl2tze.mlb.planet.gen.nz>
Date: Mon, 5 Jun 2000 09:47:44 +1200
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88650-2000.06.04-19.05.29--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi,
I would like a list of Internet APRS Servers if anyone has 1 or a
site to find them on .

73 Phillip

--

Phillip Conza
Sysop ZL2TZE BBS Blenheim Marlborough NZ
4 Port APRS Station RE68XL

AX25 ZL2TZE @ ZL2TZE.#73.MLB.NZL.OC
E-Mail private phil@zl2tze.mlb.planet.gen.nz
Packet Mail Forwarding pmail@zl2tze.mlb.planet.gen.nz

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

253. [aprssig] Re: What ver Precision Map?

From: Gun Steele W0GUN <w0gun@arrl.net>
Date: Sun, 4 Jun 2000 19:03:37 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88651-2000.06.04-19.06.38--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Larry,

Again, what is the problem with 4.0?

Gun Steele W0GUN
GUNTRONICS

----- Original Message -----

From: "Larry Zanella" <larry.zanella@attws.com>
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Sent: Sunday, June 04, 2000 3:00 PM
Subject: [aprssig] Re: What ver Precision Map?

> On 06/04/00, "Nick Critelli" <k0pcg@CritelliLaw.com>" wrote:
> > Running WinAprs 2.4.5...what version of Precision Mapping do I need.
The
> > new version is No. 4 but I have heard that it will not work with 2.4.5.
If
> > an older version will work, where do you get it?
> >
> > Nick K0PCG
>
> I just spoke to Chicago Precison Map on the phone this past Thursday. They
> said they no longer have V 3.5 available. Other than their current V 4.0,
> the only previous version they have available is V 3.0, which I purchased.
>
> The problem here is that according to what PM told me on the phone, the
> mapping data in V 3.0 is well over 5 years old---very out of date, but now
> there is no choice. I pleaded with them to sell me V 3.5, but they
> absolutely insisted No.
>
> Larry
>
> ---
> You are currently subscribed to aprssig as: w0gun@arrl.net
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You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

254. [aprssig] Re: What ver Precision Map?

From: "Jim Gill" <gillj@uswest.net>
Date: Sun, 4 Jun 2000 19:02:11 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88652-2000.06.04-19.08.30--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Should have clarified; WinAPRS 2.4.5 or below needs PM 3.5 or below.
WinAPRS 2.4.6 is supposed to work with PM4.0, haven't tried it. I don't
know if the current OCX works with PM4.

To get the PMAP_OCX, go to <http://aprs.rutgers.edu> - if that is down, I
have a copy in the at <http://www.egroups.com/community/midwestaprs> - you'll
need to join the group, then go to the files section.

Jim N0RMO

----- Original Message -----

From: "Gun Steele W0GUN" <w0gun@arrl.net>
To: "Jim Gill" <jimgill@ix.netcom.com>; "TAPR APRS Special Interest Group"
<aprssig@lists.tapr.org>
Cc: <aprssig@tapr.org>
Sent: Sunday, June 04, 2000 7:01 PM
Subject: Re: [aprssig] Re: What ver Precision Map?

> Jim,
> You mean I went to all the hassle of ordering PM 4.0 last night for
> nothing? Their site wouldn't complete the order, so Digital River emailed
me
> and we finally completed the order over the phone. I felt pretty good

about
> it until now! What is the problem with 4.0 use with WinAPRS?
>
> Gun Steele WØGUN
> GUNTRONICS
> ----- Original Message -----
> From: "Jim Gill" <gillj@uswest.net>
> To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
> Cc: <aprssig@tapr.org>
> Sent: Sunday, June 04, 2000 2:58 PM
> Subject: [aprssig] Re: What ver Precision Map?
>
>
> > ----- Original Message -----
> > From: "Nick Critelli" <k0pcg@CritelliLaw.com>
> > To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
> > Sent: Sunday, June 04, 2000 2:36 PM
> > Subject: [aprssig] What ver Precision Map?
> > > Running WinAprs 2.4.5...what version of Precision Mapping do I need.
> The
> > > new version is No. 4 but I have heard that it will not work with
2.4.5.
> > If
> > > an older version will work, where do you get it?
> > > Nick K0PCG
> >
> >
> > This was just on the sig last week...
> >
> >
> > ----- Original Message -----
> > From: "Keith Sproul" <ksproul@vger.rutgers.edu>
> > To: "TAPR Hot Technology APRS" <htaprs@lists.tapr.org>
> > Sent: Wednesday, May 31, 2000 9:24 PM
> > Subject: [htaprs] Re: Precision Mapping
> > > From Chicago Maps:
> > >
> > > > Yes, we still have Precision Mapping Streets 3.5 available. The
price
> > is
> > > \$9.99
> > > plus \$5.95 for shipping and handling. Please call 800-257-9244 to
> > order.
> > > Keith Sproul 732 445-3695 Office
> > > Student Housing Network Coordinator 732 445-2968 Fax
> > > mailto:ksproul@rci.rutgers.edu 732 821-4828 Home
> > > http://dorm.rutgers.edu/~ksproul/ WU2Z
> >
> >
> >
> > ---
> > You are currently subscribed to aprssig as: w0gun@ar1.net
> > To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
>

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255. [aprssig] RE: Speed Data From Garmin GPS-35 PC

From: David Cowley <kd7dr@worldnet.att.net>
Date: Sun, 04 Jun 2000 17:13:48 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Message-ID: <LYR842-88653-2000.06.04-19.15.58--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Good Afternoon,

My GPS 35's (2 of them) do not have displays and they are both on
trackers. What are you using to see the speed from the GPS units? If you
are using WinAPRS then i would like to infor you that i think the display form
@.\$5 at least is using Knots instesad of MPH. I have WinAPRS and APRS +SA both
running at the same time and WinAPRS showed a vehicle at 67 MPH, APRS +SA said
78 MPH. The guys speedo said 79 MPH what do you think? This was from a TH
700 with MIC-E encoding. I doubt if the GPS is the problem, both of the ones
i have are within 1 MPH of my speedo and i am really happy the speedo's are that
close.

Dave

Zanella, Larry wrote:

```
> I checked under Display, Station Display Options. It was set at MPH, so
> either this setting does not work, or something else is wrong (inaccurate)
> with the GPS-35 PC speed function.
>
> Larry
> WA7LZO
>
> -----
> From: Earl Needham [SMTP:KD5XB@AMSAT.ORG]
> Sent: Sunday, June 04, 2000 1:33 PM
> To: Zanella, Larry; TAPR APRS Special Interest Group
> Subject: Re: [aprssig] RE: Speed Data From Garmin GPS-35 PC
>
> At 12:04 PM 6/4/00 -0700, Zanella, Larry blasted the following out
> into the
> ether:
> >Bob,
> >
> >Is there an optiopnal setting in winAPRS to convert from Knots and
> display
> >in MPH?
> >
> >Larry Zanella
> >WA7LZO
>
> I believe you can. Check Display/Station Display Options and
> check
> the MPH spot.
>
> 7 3
> Earl
>
> Earl Needham, KD5XB      mailto:KD5XB@AMSAT.ORG
> Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)
> PGP Key ID 0x00BF1A39
>
> Pet peeve: breath is a noun, breathe is a verb (When you take a
> breath,
> you breathe...)
>
> ---
> You are currently subscribed to aprssig as: kd7dr@worldnet.att.net
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
```

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

256. [aprssig] SVEe 6 available from Communication Surplus

```
From: Phillip Conza <phil@z12tze.mlb.planet.gen.nz>
Date: Mon, 5 Jun 2000 12:13:30 +1200
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88659-2000.06.04-20.05.23--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

Hi All,

I would like to thank all who have replied to my questions.

Can anyone tell me what Model of the SV6 is the 1 available from Comms surplus as I need NMA output is it the 510 version ?..

I to have been following the replies and have visited Trimble and obtained several files .

Also has anyone purchased 1 and have you got the real answer ?.

The reason I am trying to find out as much as possible is that we are looking at purchasing a BULK order and if they are not up to it I would rather find out now instead of when they arrive.

73 Phillip

--
Phillip Conza
Sysop ZL2TZE BBS Blenheim Marlborough NZ
4 Port APRS Station RE68XL

AX25 ZL2TZE @ ZL2TZE.#73.MLB.NZL.OC
E-Mail private phil@zl2tze.mlb.planet.gen.nz
Packet Mail Forwarding pmail@zl2tze.mlb.planet.gen.nz

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257. [aprssig] AGWPE Help...

From: Jim Duncan <ku0g@socket.net>
Date: Sun, 04 Jun 2000 20:36:46 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88665-2000.06.04-20.39.45--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Can somebody give me instruction on how to configure AGWPE to work with KPC-3+. I get everything up and running but WinAPRS doesn't get any data from AGWPE. In the ports list it shows "ACTIVE" and "AGWPE 2000.60" but nothing happens when I F2 (xmit) and no packets are received via the VHF port...

The TPC/IP connected works (from ports settings)....

--
73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group, W0APR
First Alert Storm Team KMBC-TV9
Mailto:ku0g@kcaprs.org
Webpage: http://www.kcaprs.org

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258. [aprssig] FS: AEA PK-9600 TNC

From: "Doug Holcombe" <kb5yzi@netdoor.com>
Date: Sun, 4 Jun 2000 20:42:52 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88667-2000.06.04-20.45.47--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

I would like to sell a AEA PK-9600 TNC. As we are not using it any more. I got the original box, manual and cables. I would like to think I can sell this with out to much trouble. I will even pay for the shipping! first \$85 and its yours!

Thanks

Doug
- - -

-----BEGIN PGP SIGNATURE-----
Version: PGP 6.5.3

iQA/AwUBOTsFm8PUhaZ+Vg+1EQKsnQCeJyNYzo8BUQSomhmKzhiwEVH6XVKAoNDI
+BsI3aBjuVlgt372s9aJ6XKP
=o4R6
-----END PGP SIGNATURE-----

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

259. [aprssig] WinAPRS 2.4.7

From: Mark Sproul <msproul@vger.rutgers.edu>
Date: Sun, 4 Jun 2000 22:34:52 -0400

To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Message-ID: <LYR842-88674-2000.06.04-21.37.55--lyris.aprssid#tapr.org@lists.tapr.org>
Rendered body type: text/plain

There have been several reports of problems with Kenwood D7 and D700 processing with version 2.4.7.

We have the problem fixed and 2.4.7 has been posted on Rutgers

ftp://aprs.rutgers.edu/pub/hamradio/APRS/WinAPRS/

file w247updt.zip

This is the exe file only

If you continue to have problems, check to make sure that MFILTER is set to 00 not \$00. This causes the TNC to not send the control characters.

Keith and I will be traveling to upstate New York this week and will not be on email. We will be running APRS mobile, we will be monitoring 446.000 simplex.

Mark

You are currently subscribed to aprssid as: lyris.aprssid@tapr.org
To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org

260. [aprssid] uidigi

From: WB9W0Z@aol.com
Date: Sun, 4 Jun 2000 22:55:23 EDT
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Message-ID: <LYR842-88677-2000.06.04-21.58.52--lyris.aprssid#tapr.org@lists.tapr.org>
Rendered body type: text/plain

In reference to the uidigi 1.7 firmware from Marco, I changed the info in the bin file, verified the changes, programmed my 27C256 eeprom and installed it in my MFJ1270C.

When the tnc is powered up, I see the uidigi blurb, then nothing. No data on the screen even though the dcd light flashes. How do I access the sysop mode??

I know there are others using this firmware, what am I doing wrong?

Bruce
wb9woz

You are currently subscribed to aprssid as: lyris.aprssid@tapr.org
To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org

261. [aprssid] uiview/agwpe

From: WB9W0Z@aol.com
Date: Sun, 4 Jun 2000 23:01:34 EDT
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Message-ID: <LYR842-88679-2000.06.04-22.05.14--lyris.aprssid#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Has anyone else had the newest version of agwpe 2000.60 crash immediately when uiview starts?
Went back to 2000.50 and everything is OK

Bruce
wb9woz

You are currently subscribed to aprssid as: lyris.aprssid@tapr.org
To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org

262. [aprssid] 247

From: Robbie Robertson <mrobertson@mediaone.net>
Date: Sun, 04 Jun 2000 22:15:12 -0500
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Message-ID: <LYR842-88681-2000.06.04-22.17.05--lyris.aprssid#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi,

I can't get onto aprs.rutgers Is it broken? Wanted to get the update.. Thanks

Robbie

--

Are we having fun yet?
73 - Robbie - WA9INF
***** --... --..- *****

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

263. [aprssig] Re: uidigi

From: Greg Noneman <greg@clubnet.net>
Date: Sun, 4 Jun 2000 22:57:55 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88719-2000.06.05-01.01.37--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

There is no data monitor function on the local terminal port, so you will never see data. The important thing is whether it is digipeating correctly.

To access the sysop commands from the local terminal, hit ESCAPE and you should get the * prompt. Then hit C followed by RETURN. You should now be connected and can type in any of the commands.

73,
Greg
WB6ZSU

>In reference to the uidigi 1.7 firmware from Marco, I changed the info in
>the
>bin file, verified the changes, programmed my 27C256 eeprom and installed it
>in my MFJ1270C.
>
>When the tnc is powered up, I see the uidigi blurb, then nothing. No data on
>the screen even though the dcd light flashes. How do I access the sysop
>mode??
>
>I know there are others using this firmware, what am I doing wrong?
>
>Bruce
>wb9woz
>
>---
>You are currently subscribed to aprssig as: GREG@CLUBNET.NET
>To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
>

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

264. [aprssig] Re: uiview/agwpe

From: Roger Barker <roger@peaksys.co.uk>
Date: Mon, 5 Jun 2000 10:38:29 +0100
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR1643-88679-2000.06.05-04.44.35--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

In article <LYR1643-88679-2000.06.04-22.05.14--ROGER#PEAKSYS.CO.UK@lists.tapr.org>, WB9WOZ@aol.com writes
>Has anyone else had the newest version of agwpe 2000.60 crash immediately
>when uiview starts?
>Went back to 2000.50 and everything is OK

Mine works ok, although on my dear old 486 with Win95 OSR2, the port configuration dialogue in AGWPE refuses to open, so something's not quite right with the new version. What's the error message when it crashes?

--

Roger Barker, G4IDE - roger@peaksys.co.uk

For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

265. [aprssig] Re: AGWPE Help....

From: Roger Barker <roger@peaksys.co.uk>
Date: Mon, 5 Jun 2000 10:39:50 +0100
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88731-2000.06.05-04.44.42--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

In article <LYR1643-88665-2000.06.04-20.39.45--ROGER#PEAKSYS.CO.UK@lists.tapr.org>, Jim Duncan <ku0g@socket.net> writes
>Can somebody give me instruction on how to configure AGWPE to work with
>KPC-3+.

In the AGWPE port Properties dialogue:-

Setup tab

Tnc Type - KPC3+

SerialPort - whatever port you are using.

SerialPort BaudRate - whatever ABAUD speed your TNC is set to, but if your TNC is set to ABAUD 1200, use a terminal program to set it to 4800 or 9600. AGWPE is not happy at 1200 and will sometimes fail to put the TNC into KISS mode. After changing ABAUD, you need to send a RESET command to the TNC. (Note that this comment only applies to TNCs, with a sound card or Baycom modem SerialPort BaudRate should be set to the on-air baud rate, which is normally going to be 1200.)

Tnc Control Commands - the defaults should be correct. However, for anyone using a standard KPC-3, the defaults in AGWPE are not correct, they should be changed to "INT KISS" and "RESET".

Tnc Commands tab

TxDelay - whatever your rig can manage.
Leave the rest set to the defaults.

One other thing you need to check is that your PC to TNC cable connects CTS (most cables will connect it). Although KISS doesn't use hardware handshaking, AGWPE won't initialise the TNC if it doesn't see CTS asserted. If your cable doesn't connect CTS, and you don't want to get a different cable, then link RTS and CTS on the connector at the PC end.

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

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266. [aprssig] Re: 247

From: Keith Sproul <ksproul@vger.rutgers.edu>
Date: Mon, 5 Jun 2000 06:09:25 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: aprssig@lists.tapr.org, Brian Boccardi <boccardi@rci.rutgers.edu>
Message-ID: <LYR842-88736-2000.06.05-05.13.37--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

It will be back up around 9:30 / 10:00am

Keith

>Hi,
>
>I can't get onto aprs.rutgers Is it broken? Wanted to
>get the update.. Thanks
>
>Robbie
>


```

>--
>-----
>   Are we having fun yet?
>   73 - Robbie - WA9INF
>***** --... --... *****
>
>---
>You are currently subscribed to aprssig as: KSPROUL@VGER.RUTGERS.EDU
>To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

Keith Sproul                732 445-3695 Office
Student Housing Network Coordinator 732 445-2968 Fax
mailto:ksproul@rci.rutgers.edu 732 821-4828 Home
http://dorm.rutgers.edu/~ksproul/ WU2Z

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```

267. [aprssig] Re: Bad Data: Update Sunday 4 June

```

From: Ian Wade <Ian.Wade@care4free.net>
Date: Mon, 5 Jun 2000 11:51:11 +0100
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88743-2000.06.05-05.54.58--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

Another set of packets I've just discovered in the 4 June log:

```

~~~~~
N0SMS>APW246,TCPIP*:?APRS?
ECHO      was OFF
ECHO      now OFF
BEACON    was EVERY 0 (00 sec.)
BEACON    now EVERY 0 (00 sec.)
HEADERLN  was OFF
HEADERLN  now OFF
MYCALL    was N0SMS
MYCALL    now N0SMS
?What?
MONITOR   was 2 (I UI)
MONITOR   now 4 (UA DM C D I UI)
HID       was OFF
HID       now OFF
MYALIAS   was ECHO
MYALIAS   now none
MSTAMP    was OFF
MSTAMP    now OFF
MYALIAS   was none
MYALIAS   now ECHO
UNPROTO   was APW246 via RELAY, WIDE
UNPROTO   now APW246 via RELAY, WIDE
ALFPACK   was ON
ALFPACK   now ON
ACRDISP   was 0
ACRDISP   now 0
ALFDISP   was ON
ALFDISP   now ON
MONITOR   was 4 (UA DM C D I UI)
MONITOR   now 2 (I UI)
MTO       was all
MTO       now all
MDIGI     was ON
MDIGI     now ON
DFROM     was all
DFROM     now all
HBAUD     was 300
HBAUD     now 300
VHF       was OFF
VHF       now OFF
FLOW      was OFF
FLOW      now OFF
FULLDUP   was OFF
FULLDUP   now OFF
PACLEN    was 128
PACLEN    now 128
NEWMODE   was OFF
NEWMODE   now OFF
MRPT      was ON

```

MRPT now ON
DIGIPEAT was ON
DIGIPEAT now ON
N0SMS>APW246,TCPIP*:>310934 Joplin HF & 2M + I GATE Bringing APRS to SW Mo.

~~~~~  
How ON EARTH did all this junk get onto the wire?

73  
Ian, G3NRW  
Technical Editor, APRS Protocol Specification  
\*\*\*\*\* Third draft now available \*\*\*\*\*  
--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
|
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

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---

## 268. [aprssig] Re: Bad Data: Update Sunday 4 June - I changed my mind

From: Bill Diaz <billdiaz@megsinet.net>  
Date: Mon, 5 Jun 2000 07:42:17 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-88759-2000.06.05-07.45.26--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

What is the maximum allowable length of an APRS packet? Is it 128 bytes?

The following packet is 156 bytes long.  
PE1NRR-2>APNRR,PD0JEY-2,PA2HBL-1,PA3APP-3,PA0JYL-2\*,TRACE5-2:=5238.80N/00655  
.00E-PE1NRR SCHOONEBEEK Z/O DRENTHE pe1nrr@pi8pwd e-mail pe1nrr@vrza.org  
{UIV22}

This one contains 245 bytes.  
HA50B>FBB,HA50B-5\*:775850 P 234 HA5AQS HA8WG 000605 \*\*\* 775851 B  
974 ALL @WW LW9DVR 000605 WP - NO LEER 775852 B 987 ALL @WW  
LW7DVQ 000605 RUTA - NO LEER 775853 B 1402 ALL @WW LW2ETU 000605  
necesito Circuito

Bill KC9XG  
On Sunday, June 04, 2000 3:36 PM, Roger Barker [SMTP:roger@peaksys.co.uk]  
wrote:  
> In article <LYR1643-88541-2000.06.04-09.52.47--ROGER#PEAKSYS.CO.UK@lists  
> .tapr.org>, Brent Hildebrand <bhildebrand@earthlink.net> writes  
> [snip]  
> >Perhaps the decoding station, saw there was more then one ">" in the header,  
> >  
> >then it would have assumed that the TO field was really "WIDE2 <UI", and  
> >reconstructed the packet like this:  
> >KH2Z>WIDE2 <UI,APS199,W6KRW-2\*:=3401.41N/11709.45WbAPRS+SA Inet=Yes  
> >Uptime=003:06:04:42  
> [snip]  
> >  
> Yes, but surely no program would do that, because if it did, then it  
> would be constructing an AX25 destination address that it should know  
> was invalid.  
> >  
> It's an example of the basic error checking that any application should  
> be doing. It's nice to think that the input will always be perfect, but  
> in the real world you know it won't be. Isn't one of the main design  
> goals of any software to create something that won't fall over, no  
> matter what rubbish is thrown at it? As I 'm sure you appreciate,  
> assuming a line of data is ok until it creates an error, and assuming it  
> is not ok until you've validated it, represent two very different design  
> philosophies.  
> >  
> As regards the original problem, it's just taken me less than five

```

> minutes to create a tcp/ip data stream that results in a steady series
> of "Unhandled exception: c0000005" errors in WinAPRS. In fact it was the
> first thing I tried, because checking for what happens when the expected
> terminator never arrives is a test that I've used for a long time on my
> own programs. Perhaps it's not the problem that everyone is complaining
> about, but it's certainly one way of creating the error - You just send
> it a data stream without any CR/LF's in it.
>
> --
> Roger Barker, G4IDE - roger@peaksys.co.uk
> For UI-View go to - http://www.packetradio.org.uk
> For WinPack go to - http://www.peaksys.co.uk
>
> ---
> You are currently subscribed to aprssig as: BILLDIAZ@MEGSINET.NET
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

```

---

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org  
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## 269. [aprssig] DIGI\_NED 0.1.1 available

```

From: "Henk de Groot (EMN)" <Henk.de.Groot@emn.ericsson.se>
Date: Mon, 5 Jun 2000 11:44:26 +0200
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88794-2000.06.05-08.47.53--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

For your information:

The DIGI\_NED version 0.1.1 digipeater software is now available on the web. Remko, PE1MEW, invested quite some time to completely redesign the web pages. I think its looking great!

I did some work on the documentation by adding a FAQ section which may help to understand better what you can do and how it works. One of the users on this SIG will surely recognize this part :-).

I also included a section how to get this software running on a KISS TNC now, it was not clear how to do it (some even didn't know that you could do it, but it has been possible since the very first release!). This section will guide you with this setup and explain some of the flags of the AX25 Mac-layer driver that DIGI\_NED uses. I think this will help a lot to get the software running on your KISS TNC.

Adresses:  
<http://www.homepages.hetnet.nl/~remko>  
<http://home.hetnet.nl/~remko>  
[http://connect.to/digi\\_ned](http://connect.to/digi_ned)

Changes:

- 01-06-2000 version 0.1.1
- DigiTo: rules should only be executed on UI frames with PID F0, changing the SSID of destination calls on connection-oriented links gives a huge mess.
- When a message was send to DIGI\_NED via a TCP/IP tunnel then DIGI\_NED used the call of the sender of the AX.25 frame, in this case the gate, as return address. The real sender is in the path that is send with the data. DIGI\_NED now uses the real sender to direct the data to.
- Added FAQ section to the documentation which may be helpfull to understand what the software is doing.
- Ran a spelling checker on the documentation.

Note that this is free source under the conditions of the GNU general public licence. So if you want to (re)use portions of the program or modify it or whatever, be my guest as long as you stick to the GNU licencing terms. For you Linux guys, SUSE is building RPM packages of this software for the SUSE distributions. Don't know about other vendors, the maintainer for SUSE informend me about their activity.

You may also want to reuse the AX25\_MAC driver to drive all kind of hardware, for example including an interface for this in AprsDOS would enable its use on BayCom modems, SCC cards, PicPAR, YAM etc. AX25\_MAC just sends and receives raw frames. The interface to this is extreemly simple and can be found in the file "mac\_if.c" in the DIGI\_NED source tree. AX25\_MAC itself is GNU code, but is

independent from any other program you let interface with it (so closed-software programs can be used with AX25\_MAC).

This is all permitted and I like open-source for this reason.

Kind regards,

Henk.

--  
#####  
The difference between theory and practice in practice is bigger than the difference between theory and practice in theory.

Henk de Groot | Tel: +31 53 4505400 Ext: 5400  
<Henk.de.Groot@emn.ericsson.se> | Ericsson Business Mobile Networks

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---

## 270. [aprssig] Re: Bad Data: Update Sunday 4 June - I changed my mind

From: Roger Barker <roger@peaksys.co.uk>  
Date: Mon, 5 Jun 2000 15:05:01 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-88808-2000.06.05-09.08.40--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In article <LYR1643-88759-2000.06.05-07.45.26--ROGER#PEAKSYS.CO.UK@lists.tapr.org>, Bill Diaz <billdiaz@megsinet.net> writes  
>What is the maximum allowable length of an APRS packet? Is it 128 bytes?  
>  
>The following packet is 156 bytes long.  
>PE1NRR-2>APNRR,PD0JEY-2,PA2HBL-1,PA3APP-3,PA0JYL-2\*,TRACE5-2:=5238.80N/00655  
>.00E-PE1NRR SCHOONEBEEK Z/O DRENTHE pe1nrr@pi8pwd e-mail pe1nrr@vrza.org  
>{UIV22}

No it's not. You're including the length of the decoded frame header.  
The packet length is actually 95 bytes.

>This one contains 245 bytes.  
>HA50B>FBB,HA50B-5\*:775850 P 234 HA5AQ5 HA8WG 000605 \*\*\* 775851 B  
> 974 ALL @WW LW9DVR 000605 WP - NO LEER 775852 B 987 ALL @WW  
> LW7DVQ 000605 RUTA - NO LEER 775853 B 1402 ALL @WW LW2ETU 000605  
>necesito Circuito

That's not an APRS packet, it's an FBB BBS sending out bulletin headers, and, to me, is a good example of why traffic sent to the internet should be pre-filtered. (In some European countries, APRS shares channels with BBS traffic.)

--  
Roger Barker, G4IDE - roger@peaksys.co.uk  
For UI-View go to - <http://www.packetradio.org.uk>  
For WinPack go to - <http://www.peaksys.co.uk>

---  
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---

## 271. [aprssig] Re: Bad Data: Update Sunday 4 June - I changed my mind

From: Ian Wade <Ian.Wade@care4free.net>  
Date: Mon, 5 Jun 2000 15:38:19 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-88819-2000.06.05-09.42.05--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In article <LYR14778-88759-2000.06.05-07.45.26--Ian.Wade#care4free.net@lists.tapr.org>, Bill Diaz <billdiaz@megsinet.net> writes  
>What is the maximum allowable length of an APRS packet? Is it 128 bytes?

Depends what you mean by "packet". If you are talking about \*on-air\*, the max is 72 bytes of header plus 256 bytes information + 2 bytes FCS + flags.

If you are talking about a packet \*report\* (e.g. emanating from an Igate, like the examples you gave), the max becomes 101 header bytes (including SSIDs, commas, -, >, :, \*) plus 256 bytes information + CRLF-- i.e. 359 bytes.

(Or even more if the header contains TNC status information/timestamp....)

(i.e. an APRS program reading bytes from a TNC should have a minimum line buffer size of at least 400 bytes or so for safety).

```
>
>The following packet is 156 bytes long.
>PE1NRR-2>APNRR,PD0JEY-2,PA2HBL-1,PA3APP-3,PA0JYL-2*,TRACE5-2:=5238.80N/00655
>.00E-PE1NRR SCHOONEBEEK Z/O DRENTHE pe1nrr@pi8pwd e-mail pe1nrr@vrza.org
>{UIV22}
```

Yup, I've noticed several times when browsing logs that packets from Holland seem to be much longer than from anywhere else in the world. Amazing but true <grin>.

```
>
>This one contains 245 bytes.
>HA50B>FBB,HA50B-5*:775850 P 234 HA5AQS HA8WG 000605 *** 775851 B
> 974 ALL @WW LW9DVR 000605 WP - NO LEER 775852 B 987 ALL @WW
> LW7DVQ 000605 RUTA - NO LEER 775853 B 1402 ALL @WW LW2ETU 000605
>necesito Circuito
```

This isn't an APRS packet. The character following the colon is "7", which is not an APRS Data Type Identifier (APRS should treat this as an AX.25 beacon).

73  
Ian, G3NRW  
Technical Editor, APRS Protocol Specification  
\*\*\*\*\* Third draft now available \*\*\*\*\*

```
--
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

---  
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---

## 272. [aprssig] Latitude is wrong

From: "Ben Miller" <benm@uniplex.com>  
Date: Mon, 5 Jun 2000 09:45:25 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-88822-2000.06.05-09.48.49--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

K8DNE is trying to get his D700 working this morning and something odd is happening. He is using a Garmin and appearantly has a good fix on the satellites. His Longitude is correct but the Latitude is showing him at 4364.40 rather than around 3255.1.

He has sent some that are correct but most are incorrect. He is showing up in S. Dakota instead of Dallas (Rowlett) TX.

Any clues?

Ben Miller  
KC5NFU

---  
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---

## 273. [aprssig] RE: Latitude is wrong

From: "Ben Miller" <benm@uniplex.com>  
Date: Mon, 5 Jun 2000 09:47:21 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-88824-2000.06.05-09.50.49--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Here are two posits that came in almost simultaneously:

K8DNE>APK101,RELAY,WIDE:@051444z3254.36N/09633.71W>268/025/Mic-E/M0/Off

duty>]"5X}  
K8DNE>APRS,RELAY,WIDE:@051445z4364.37N/09633.73W>268/025/E>dsy/M0/Off  
duty.. ]"5X}

Notice the correct one on top and the incorrect one on bottom?!

Ben Miller  
-----Original Message-----  
From: Ben Miller [mailto:benm@uniplex.com]  
Sent: Monday, June 05, 2000 9:45 AM  
To: aprssig@lists.tapr.org  
Subject: Latitude is wrong

K8DNE is trying to get his D700 working this morning and something odd is happening. He is using a Garmin and apparently has a good fix on the satellites. His Longitude is correct but the Latitude is showing him at 4364.40 rather than around 3255.1.

He has sent some that are correct but most are incorrect. He is showing up in S. Dakota instead of Dallas (Rowlett) TX.

Any clues?

Ben Miller  
KC5NFU

---  
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---

## 274. [aprssig] 2.4.7

From: Guy Story <kc5goi@tapr.org>  
Date: Mon, 5 Jun 2000 09:53:19 -0500 (CDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-88827-2000.06.05-09.56.08--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Mark, is 2.4.7 suppose to work with PM 4.0? The reason I ask is that my NT pc at work has only 3.0 installed and I am getting a message stating Failed to create PMAP OCX control?

thanks,

Guy Story  
KC5GOI  
kc5goi@tapr.org  
<http://www.kc5goi.net>

---  
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---

## 275. [aprssig] Re: Bad Data: Update Sunday 4 June - I changed my mind

From: Bill Diaz <billdiaz@megsinet.net>  
Date: Mon, 5 Jun 2000 10:02:46 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-88829-2000.06.05-10.05.47--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Roger,

On Monday, June 05, 2000 9:05 AM, Roger Barker [SMTP:roger@peaksys.co.uk] wrote:  
> In article <LYR1643-88759-2000.06.05-07.45.26--ROGER#PEAKSYS.CO.UK@lists  
> .tapr.org>, Bill Diaz <billdiaz@megsinet.net> writes  
> >What is the maximum allowable length of an APRS packet? Is it 128 bytes?  
> >  
> >The following packet is 156 bytes long.  
> >PE1NRR-2>APNRR,PD0JEY-2,PA2HBL-1,PA0JYL-2\*,TRACE5-2:=5238.80N/00655  
> >  
> >.00E-PE1NRR SCHOONEBEEK Z/O DRENTHE pe1nrr@pi8pwd e-mail pe1nrr@vrza.org  
> >{UIV22}  
> >  
> No it's not. You're including the length of the decoded frame header.

> The packet length is actually 95 bytes.

Ok. What is the maximum permitted size of the information field? What is the maximum permitted size of the header? Or is the the header limited to a certain number of Via calls?

This information would be useful in detecting unterminated strings.

```
>
> >This one contains 245 bytes.
> >HA50B>FBB,HA50B-5*:775850 P      234 HA5AQS      HA8WG 000605 *** 775851 B
> > 974 ALL @WW      LW9DVR 000605 WP - NO LEER 775852 B 987 ALL @WW
> > LW7DVQ 000605 RUTA - NO LEER 775853 B 1402 ALL @WW LW2ETU 000605
> >
> >necesito Circuito
>
> That's not an APRS packet, it's an FBB BBS sending out bulletin headers,
> and, to me, is a good example of why traffic sent to the internet should
> be pre-filtered. (In some European countries, APRS shares channels with
> BBS traffic.)
>
```

The present Internet feed has many packets that appear to have no APRS content, or may be difficult to identify as APRS related packets. Does UIView or other APRS applications filter or reject non-APRS packets before passing them to the Internet?

```
> --
> Roger Barker, G4IDE - roger@peaksys.co.uk
> For UI-View go to - http://www.packetradio.org.uk
> For WinPack go to - http://www.peaksys.co.uk
>
> ---
Bill KC9XG
```

```
---
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```

---

## 276. [aprssig] Re: Bad Data: Update Sunday 4 June - I changed my mind

```
From: Bruno Quesnel <quesnelb@ve2.ele.etsmtl.ca>
Date: Mon, 05 Jun 2000 11:25:57 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Message-ID: <LYR842-88831-2000.06.05-10.26.59--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

Bill Diaz wrote:

```
> Roger,
>
> On Monday, June 05, 2000 9:05 AM, Roger Barker [SMTP:roger@peaksys.co.uk]
> wrote:
> > In article <LYR1643-88759-2000.06.05-07.45.26--ROGER#PEAKSYS.CO.UK@lists
> > .tapr.org>, Bill Diaz <billdiaz@megsinet.net> writes
> > >What is the maximum allowable length of an APRS packet? Is it 128 bytes?
> > >
> > >The following packet is 156 bytes long.
> > >PE1NRR-2>APNRR,PD0JEY-2,PA2HBL-1,PA3APP-3,PA0JYL-2*,TRACE5-2:=5238.80N/00655
> > >
> > >.00E-PE1NRR SCHOONEBEEK Z/O DRENTHE pe1nrr@pi8pwd e-mail pe1nrr@vrza.org
> > >{UIV22}
> > >
> > No it's not. You're including the length of the decoded frame header.
> > The packet length is actually 95 bytes.
>
> Ok. What is the maximum permitted size of the information field? What is the
> maximum permitted size of the header? Or is the the header limited to a
> certain number of Via calls?
>
> This information would be useful in detecting unterminated strings.
>
```

Isn't this documented in the document talking about the specs of the protocol  
???

```
> >
> > >This one contains 245 bytes.
```

```
> > >HA50B>FBB,HA50B-5*:775850 P      234 HA5AQS      HA8WG 000605 *** 775851 B
> > > 974 ALL @WW      LW9DVR 000605 WP - NO LEER 775852 B 987 ALL @WW
> > > LW7DVQ 000605 RUTA - NO LEER 775853 B 1402 ALL @WW LW2ETU 000605
> >
> > >necesito Circuito
> >
> > That's not an APRS packet, it's an FBB BBS sending out bulletin headers,
> > and, to me, is a good example of why traffic sent to the internet should
> > be pre-filtered. (In some European countries, APRS shares channels with
> > BBS traffic.)
> >
>
> The present Internet feed has many packets that appear to have no APRS content,
> or may be difficult to identify as APRS related packets. Does UIView or other
> APRS applications filter or reject non-APRS packets before passing them to the
> Internet?
>
```

As a suggestion, I guess that it would be important that any program used as an IGATE program should be able to detect good/bad against the spec. I know these may be very either sketchy or can change rapidly. Would just need to update accordingly.

For the length, I'm pretty sure that it's easy to determine if it's over the permitted limit by the protocol definition. I know that on the unix/linux side, it is.

```
> > --
> > Roger Barker, G4IDE - roger@peaksys.co.uk
> > For UI-View go to - http://www.packetradio.org.uk
> > For WinPack go to - http://www.peaksys.co.uk
> >
> > ---
> > Bill KC9XG
>
> ---
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> To unsubscribe send a blank email to leave-aprssi-842K@lists.tapr.org
```

```
--
Bruno Quesnel                                bruno.quesnel@mindready.com
VA2BMG                                       quesnelb@ve2.ele.etsmtl.ca
Stagiaire - MindReady Solutions
1375 route Trans-Canada, bureau 400
Dorval H9P 2W8
tel.: 514-685-2003 poste 304
```

```
---
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```

## 277. [aprssi] Re: Position rate

```
From: "Henk de Groot (EMN)" <Henk.de.Groot@emn.ericsson.se>
Date: Mon, 5 Jun 2000 12:25:13 +0200
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>
Message-ID: <LYR842-88832-2000.06.05-10.35.10--lyris.aprssi@tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

```
> A Hamhud :) The HH only talks when it has something to say.
> (turned left here etc)
```

Well, thats a suitable answer for areas well-served by digipeaters. I did some tracking last weekend and went into a not so well covered area (there are still lots of those areas in Europe, we are just in the phase of buildup and need to acquire more enthusiast hams).

During the drive in that area there are signals on the APRS QRG but the flutter and fading while driving kills most of the packets.

Only occasionally a packet would make the TH-D7 beep and show the information. To successfully deposit tracking information in such an environment you need to have frequent transmissions and hopefully some of your packets will just be transmitted on the



right time to be picked up by a digi or basestation. There is a very low probability that you will also hear your own digipeated packet back because the transmit/receive window for successful reception or transmission is very short and changing constantly. In this environment it is also \*very\* important that the packet is as small as possible; only MIC-E and no status text.

While I think the HamHud is really smart at things, in such an environment it does not work. As far as I see the smart protocol relies on having good or reasonable digis and bases. If not then it has to drop pack to the trail method like everybody else. I think the HamHud already does this, at least it measures the digi-reliability. I don't know what the unit does when the digi is very unreliable. The HamHud should at least start using MIC-E to make the packets as short as possible.

When you deposit a message every minute and have a 1 in 20 chance that a digi or base hears it then one message will enter the network on average every 20 minutes at irregular intervals. There is no way to only deposit messages at corners etc.

So your answer is good, but not the solution to every APRS Tracking problem. What rate to people use on the less smart devices (or in the HamHud in badly covered areas)?

Kind regards,

Henk.

--

#####  
The difference between theory and practice in practice is bigger than the difference between theory and practice in theory.

Henk de Groot | Tel: +31 53 4505400 Ext: 5400  
<Henk.de.Groot@emn.ericsson.se> | Ericsson Business Mobile Networks

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---

## 278. [aprssig] Update on Doppler and HSP

From: Kd4emi@aol.com  
Date: Mon, 5 Jun 2000 12:01:15 EDT  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-88838-2000.06.05-11.04.33--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

First of all - thanks to everyone that helped me assemble my HSP box. It took an embarrassing 5 days of work to figure out what I did wrong. (using the guides I neglected to re-check the Tripmate info and did not connect the tripmate properly- if I had used another type of GPS it would have worked correctly much sooner)

The Doppler has been completed and here are my impressions of it's operation.

Sunday morning I DF'd several different stations quite easily. The display is nice and easy to follow and using this type of doppler is really just like the fancy Doppler systems unit. In 2 words-- It works ! And-- it worked well. Based on the cost, ease of assembly, I would say that this is a great system for DF hounds to play with. My next project will be to interface it to APRS system. The only problem I have seen with running APRS and doppler is when the radio keys to xmit the doppler info, you mess up the doppler unit. I almost think I am going to prefer slowing down the whole thing, inputting the DF fix manually, taking a careful look at the screen, and then heading out from there. Maybe as I get older I find that just chasing the LED's is not as fun as thinking about where to go... ( but then again-- maybe not ! )  
Mike KD4EMI@AOL.COM

---

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---

## 279. [aprssig] RE: Latitude is wrong

From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
Date: Mon, 5 Jun 2000 12:46:04 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>

Message-ID: <LYR842-88842-2000.06.05-11.48.58--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

On Mon, 5 Jun 2000, Ben Miller wrote:

```
> Here are two posits that came in almost simultaneously:
>
> K8DNE>APK101,RELAY,WIDE:@051444z3254.36N/09633.71W>268/025/Mic-E/M0/Off
> duty>/J"5X}
> K8DNE>APRS,RELAY,WIDE:@051445z4364.37N/09633.73W>268/025/E>dsy/M0/Off
> duty.. J"5X}
>
> Notice the correct one on top and the incorrect one on bottom?!
```

First one is a garble probably by the radio itself. It sent the Packet using the MESSAGE UNPROTO of APK101 where as it should have used the LATITUDE UNPROTO. Occasionally the D700 can get mixed up in the constant switching back and forth between internal UNPROTOS and the result is a mixture of both. It should not occur, but it has been known to happen.

bob

---

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---

## 280. [aprssid] RE: Linux UI-Digipeater

From: "Henk de Groot (EMN)" <Henk.de.Groot@emn.ericsson.se>  
Date: Mon, 5 Jun 2000 13:44:05 +0200  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-88844-2000.06.05-11.52.50--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

Hello John,

```
> -----Original Message-----
> The question for the group is: is there a Linux/AX.25 package that
> allows me to do advanced DIGI functions, RF<->Internet gatewaying, AND
> allows me to use other AX25 ports for additional functions?
```

You may want to use a combination of DIGI\_NED and APRSD. You use DIGI\_NED to do advanced digipeating (its the most advanced digi I'm aware of and if not, tell me what I need to add :-)) and use APRSD for the DIGI\_NED<->Internet tunnel. An example how to set this up can be found in the DIGI\_NED manual (I don't mention any specific IGATE software but I think APRSD will do).

You can find DIGI\_NED on:  
<http://www.homepages.hetnet.nl/~remko>  
<http://home.hetnet.nl/~remko>  
[http://connect.to/digi\\_ned](http://connect.to/digi_ned)

You need the source package and build it for Linux (old and new utilities supported). DIGI\_NED does not require you to make changes to the kernel, the only problem is the occurrence of 'protocol 0000 is buggy' messages in the message log due to some unknown problem - it does not affect the working (I'm open to suggestions on how to fix this from happening).

Kind regards,

Henk.

--

#####  
The difference between theory and practice in practice is bigger than the difference between theory and practice in theory.

Henk de Groot | Tel: +31 53 4505400 Ext: 5400  
<Henk.de.Groot@emn.ericsson.se> | Ericsson Business Mobile Networks

---

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---

## 281. [aprssid] Re: Bad Data: Update Sunday 4 June - I changed my mind

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Mon, 5 Jun 2000 12:54:33 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssid@lists.tapr.org>  
Message-ID: <LYR842-88847-2000.06.05-11.57.36--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Mon, 5 Jun 2000, Ian Wade wrote:

> >What is the maximum allowable length of an APRS packet? Is it 128 bytes?  
>  
> Depends what you mean by "packet". If you are talking about \*on-air\*, the max  
> is 72 bytes of header plus 256 bytes information + 2 bytes FCS + flags.

But NONE of the existing APRS formats are this long. Each format is fixed in length. (From memory...: STATUS is 73 bytes? Messages are 67 bytes Positions are 80, Position comments are 42 etc...

See exact lengths in the APRS SPEC

de WB4APR, Bob

---

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---

## 282. [aprssid] Re: Update on Doppler and HSP

From: BordingK@aol.com  
Date: Mon, 5 Jun 2000 12:56:49 EDT  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Cc: aprssid@tapr.org  
Message-ID: <LYR842-88848-2000.06.05-12.00.53--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Our club has two DF Jr units and they arrived while I was away TDY with the Army. Before I had a chance to get back, both units had been blown by hams hooking radios up and transmitting, without thinking, back directly into the DF unit.

We had them fixed and now use a scanner on the DFs are the receiver.

DE W5KNB  
Ken

---

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---

## 283. [aprssid] Precision Mapping v 3.5

From: "Nick Critelli" <rumpole@CritelliLaw.com>  
Date: Mon, 5 Jun 2000 11:55:43 -0500  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-88849-2000.06.05-12.02.16--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

As of Monday June 5, 2000, Carol at Chicago Maps still has ver 3.5 available for APRS use. You can call her at: 1-800-257-9244 ext 127. Price: \$9.99 shipping \$5.95. By the way this company seems to be very supportive of APRS. If you call, be sure to tell her you are a ham and this is for APRS use.

Nick K0PCG

---

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---

## 284. [aprssid] Re: Position rate

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Mon, 5 Jun 2000 13:03:19 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssid@lists.tapr.org>  
Message-ID: <LYR842-88850-2000.06.05-12.06.18--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Mon, 5 Jun 2000, Henk de Groot (EMN) wrote:

```
> > A Hamhud :) The HH only talks when it has something to say.
>
> Well, thats a suitable answer for areas well-served by digipeaters.
> I did some tracking last weekend and went into a not so well covered
> area...
```

COMMENT: (Only generally related to HAM HUD)  
I noticed while traveling in Utah and the Western USA with no digipeater coverage that with an assumed range of 6 miles and speeds of 60 MPH or more, that you only get a probable 3 packets at the one minute rate to capture someone from the opposite direction.. If you only ran 2 minutes, then you only get ONE chance to see each other. (This has nothing to do with the HH, but it just a reminder that if you are in the open, far from APRS digipeaters, PLEASE run one minute rate.

Then back off when you get in town. The HH would probably do this automatically, since it will NOT hear its own digipeats, so it will keep trying at the MAX rate...

de WB4APR, Bob

---

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---

## 285. [aprssig] Re: Update on Doppler and HSP

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Mon, 5 Jun 2000 13:07:15 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-88851-2000.06.05-12.10.10--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Mon, 5 Jun 2000 Kd4emi@aol.com wrote about DIRECTION FINDING:

```
> APRS system. The only problem I have seen with running APRS and doppler is
> when the radio keys to xmit the doppler info, you mess up the doppler unit. I
> almost think I am going to prefer slowing down the whole thing, inputting the
> DF fix manually, taking a careful look at the screen, and then heading out
> from there.
```

I agree completely. After all the initial DF interfacing I did, I ended up just putting in a PUSH button. Let the DF unit generate all the garbage it wants to. But when you DO get a good fix, then PUSH the button momentarily and APRS will capture that fix. Thus, APRS only sees what the HUMAN validates as "good" data...

APRSDos does this internally. (Though Ill have to go back and read DF.TXT to remember how I implemented it)... and what key you push...

de WB4APR, Bob

---

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---

## 286. [aprssig] RE: 2.46 still bad

From: "Henk de Groot (EMN)" <Henk.de.Groot@emn.ericsson.se>  
Date: Mon, 5 Jun 2000 15:49:48 +0200  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-88856-2000.06.05-12.31.12--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hello

```
> -----Original Message-----
> From: Ian Wade [mailto:Ian.Wade@care4free.net]
>
> In article <01BFCd30.FE7A1080.billdiaz@megsinet.net>, Bill Diaz
> <billdiaz@megsinet.net> writes
> >Headers that include timestamps, <UI> etc. provide no useful
> information, are a
```

> >waste of bandwidth, and may cause some applications to fail  
> or misinterpret the  
> packet.

Sorry Bill, but any formatted headers you see are generated by your TNC. There is nothing like this on the air! Also showing <UI> or UI is something your TNC does (on the air it is just 1 byte, either 0x03 hex or 0x13 when the poll-bit is set, and it is the same for all TNC's). Any call is always 7 bytes in the AX.25 header on air, 6 bytes with space padded-call which is shifted one bit, and one byte with SSID and some extra bits. This is also the same for all TNC's. So the mix of different output you see from different TNCs are caused by the TNC. Switching options on and off changes the visual appearance, it does not change the packet on air at all.

What is wrong here is that the Trace-output of the TNC is used by other programs. This Trace-output was designed to be read by humans, not machines. That's why there is no real standard for it, only defacto standards and every vendor had a different opinion and shows the same data in a slightly different way.

> Bill, what more can I say. I agree with you 100%. In fact, although  
> APRSdec will handle things like <UI> and TNC timestamps in headers, I  
> have now decided to flag these as warnings, because (as you  
> rightly say)  
> they shouldn't really be there.  
>  
> (Incidentally, Roger Barker's UI-View happily ignores <UI> and TNC  
> timestamps in headers, so at least one person got it right :-))

I don't know how you use UI-View in this case and maybe Roger went through the trouble of coping with all the different variants. But it is better to switch to a machine-format. As soon as you switch to a machine-format, be it KISS or any other raw packet data format you will never have this formatting problem. If you use AGWPE for example you will use the TNC in KISS. The binary layout of a packet is well described in the AX/25 protocol specification. If a program uses this standardized input you will not have a problem. But instead a lot of APRS programs rely on the TNC output that was designed for humans and not machines and there are just too many variants to catch everything.

I don't think the APRS specification should ever define this, it should just specify the content of a packet and not how a TNC pleases it to report it.

I sense that there is some basic misunderstanding between what a TNC reports and what actually goes into the air. Switching timestamps on or off does not change any bit on the aired packet at all. The layout of the trace data is defined in your TNC, its not coming from outside.

Of course the path as it is present in the gated-data should be standardized, but that does not contain <UI> or timestamp information.

Kind regards,

Henk.

---

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---

## 287. [aprssig] Re: Bad Data: Update Sunday 4 June - I changed my mind

From: Roger Barker <roger@peaksys.co.uk>  
Date: Mon, 5 Jun 2000 18:34:32 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-88858-2000.06.05-12.40.09--lyris.aprssig@lists.tapr.org>  
Rendered body type: text/plain

In article <LYR1643-88829-2000.06.05-10.05.47--ROGER#PEAKSYS.CO.UK@lists.tapr.org>, Bill Diaz <billdiaz@megsinet.net> writes

>Roger,

>

>

>On Monday, June 05, 2000 9:05 AM, Roger Barker [SMTP:roger@peaksys.co.uk]

>wrote:

>> In article <LYR1643-88759-2000.06.05-07.45.26--ROGER#PEAKSYS.CO.UK@lists

>> .tapr.org>, Bill Diaz <billdiaz@megsinet.net> writes

```
>> >What is the maximum allowable length of an APRS packet? Is it 128 bytes?
>> >
>> >The following packet is 156 bytes long.
>> >PE1NRR-2>APNRR,PD0JEY-2,PA2HBL-1,PA3APP-3,PA0JYL-2*,TRACE5-2:=5238.80N/00655
>> >
>> >.00E-PE1NRR SCHOONEBEEK Z/O DRENTHE pe1nrr@pi8pwd e-mail pe1nrr@vrza.org
>> >{UIV22}
>>
>> No it's not. You're including the length of the decoded frame header.
>> The packet length is actually 95 bytes.
>
> Ok. What is the maximum permitted size of the information field? What is the
>maximum permitted size of the header? Or is the the header limited to a
>certain number of Via calls?
```

The maximum size of an AX25 information field is 256 bytes.

An AX25 header in binary format is a maximum of 72 bytes. However, the maximum length of a decoded header is far more than that. In "TNC2" format, without any MStamp or MCOM information, It's about 107 bytes.

```
>This information would be useful in detecting unterminated strings.
>
>>
>> >This one contains 245 bytes.
>> >HA50B>FBB,HA50B-5*:775850 P 234 HA5AQS HA8WG 000605 *** 775851 B
>> > 974 ALL @WW LW9DVR 000605 WP - NO LEER 775852 B 987 ALL @WW
>> > LW7DVQ 000605 RUTA - NO LEER 775853 B 1402 ALL @WW LW2ETU 000605
>> >
>> >necesito Circuito
>>
>> That's not an APRS packet, it's an FBB BBS sending out bulletin headers,
>> and, to me, is a good example of why traffic sent to the internet should
>> be pre-filtered. (In some European countries, APRS shares channels with
>> BBS traffic.)
>>
>
>The present Internet feed has many packets that appear to have no APRS content,
>or may be difficult to identify as APRS related packets. Does UIView or other
>APRS applications filter or reject non-APRS packets before passing them to the
>Internet?
```

UI-View doesn't pass non-APRS packets to the internet.

```
--
Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - http://www.packetradio.org.uk
For WinPack go to - http://www.peaksys.co.uk
```

```
---
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```

## 288. [aprssig] Re: Bad Data: Update Sunday 4 June

```
From: "Henk de Groot (EMN)" <Henk.de.Groot@emn.ericsson.se>
Date: Mon, 5 Jun 2000 16:42:33 +0200
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88860-2000.06.05-12.47.06--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

Hey, this is interesting:

```
> -----Original Message-----
> HBAUD was 300
> HBAUD now 300
```

300 baud? Looks like a HF gate to me...

Now that I saw some dumps I also understand the business with the header-line! These things really appear in the path data that is put in by the IGATE. I don't think you need to change anything in the APRS specification, I'm sure the correct format for this is already specified.

Still I wonder. There must be stations that just dump their data into an IGATE without verifying what they are transmitting.

I'm thinking about adding an IGATE path validator to DIGI\_NED,

so those mailformed packets will at least not be repeated anymore. So that is not fighting at the source or at the termination point but along the way. Sounds good?

Should there be more validation build in? This validator of Bill Diaz, is that something that should be in a digipeater too (stop spreading malformed packets)?

Kind regards,

Henk.

---

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---

## 289. [aprssig] Re: Bad Data: Update Sunday 4 June - I changed my mind

From: Ian Wade <Ian.Wade@care4free.net>  
Date: Mon, 5 Jun 2000 18:54:44 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-88865-2000.06.05-13.06.22--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In article <LYR14778-88847-2000.06.05-11.57.36--Ian.Wade#care4free.net@lists.tapr.org>, Bob Bruninga <bruninga@nadn.navy.mil> writes

>  
>But NONE of the existng APRS formats are this long. Each format is fixed  
>in length.

Not true. A user-defined packet can be any length (up to the AX.25 maximum).

Also, a Third-Party packet will exceed the Information field lengths, because of the embedded header.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

\*\*\*\*\* Third draft now available \*\*\*\*\*

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
|                                     email: g3nrw@arrl.net |
|                                     |                   |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER:      http://www.netro.co.uk/aprs.htm |
+-----+
```

---

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---

## 290. [aprssig] Re: Bad Data: Update Sunday 4 June

From: Ian Wade <Ian.Wade@care4free.net>  
Date: Mon, 5 Jun 2000 19:01:33 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-88864-2000.06.05-13.06.16--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In article <LYR14778-88860-2000.06.05-12.47.06--Ian.Wade#care4free.net@lists.tapr.org>, Henk de Groot (EMN) <Henk.de.Groot@emn.ericsson.se> writes

>  
>Now that I saw some dumps I also understand the business with  
>the header-line! These things really appear in the path data  
>that is put in by the IGATE. I don't think you need  
>to change anything in the APRS specification, I'm sure  
>the correct format for this is already specified.

Correct.

>  
>Still I wonder. There must be stations that just dump their  
>data into an IGATE without verifying what they are

Correct. That's the problem. The APRS software that does this is badly broken (it isn't the user's fault). It should never allow anything except properly formed APRS packets onto the Internet or onto the radio network.

Definitely yes.

73

Technical Editor, APRS Protocol Specification

--

— — —

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From: Bill Diaz <billdiaz@megsinet.net>

Date: Mon, 5 Jun 2000 13:09:00 -0500

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Message-ID: <LYR842-88866-2000.06.05-13.12.06--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

Henk,

This and similar threads have been primarily focused on packets that cause WinAps to crash with an unhandled exception error. These errors are most often encountered when using the APRServe Internet feed but can also be experienced when using a TNC according to some reports.

See below :

Bill KC9XG

On Monday, June 05, 2000 8:50 AM, Henk de Groot (EMN)

[SMTP:Henk.de.Groot@emn.ericsson.se] wrote:

```
> Hello
```

 $\gamma$ 

> > -----Original Message-----

> > From: Ian Wade [mailto:Ian.Wade@care4free.net]

&gt; &gt;

> > In article <01BFCD30.FE7A1080.billdiaz@megsinet.net>, Bill Diaz

> > <billldiaz@megsinet.net> writes

```
> > > Headers that include timestamps, <UI> etc. provide no useful
```

```
> > information, are a
```

```
> > >waste of bandwidth, and may cause some applications to fail
```

```
> > or misinterpret the
```

```
> > > packet.
```

>

```
> Sorry Bill, but any formatted headers you see are generated by your
```

> TNC. There is nothing like this on the air! Also showing <UI> or

```
> UI is something your TNC does (on the air it is just 1 byte, either
```

```
> 0x03 hex or 0x13 when the poll-bit is set, and it is the same for
```

> all TNC's). Any call is always 7 bytes in the AX.25 header on air

```
> 6 bytes with space padded-call which is shifted one bit, and one
```

```
> byte with SSID and some extra bits. This is also the same for all
```

> TNC's. So the mix of different output you see from different TNCs

> are caused by the TNC. Switching options on and off changes the

> visual appearance, it does not change the packet on air at all.

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>  
> What is wrong here is that the Trace-output of the TNC is used by  
> other programs. This Trace-output was designed to be read by humans,  
> not machines. That's why there is no real standard for it, only  
> defacto standards and every vendor had a different opinion and  
> shows the same data in a slightly different way.  
>  
> > Bill, what more can I say. I agree with you 100%. In fact, although  
> > APRSdec will handle things like <UI> and TNC timestamps in headers, I  
> > have now decided to flag these as warnings, because (as you  
> > rightly say)  
> > they shouldn't really be there.  
> >  
> > (Incidentally, Roger Barker's UI-View happily ignores <UI> and TNC  
> > timestamps in headers, so at least one person got it right :-))  
>  
> I don't know how you use UI-View in this case and maybe Roger went  
> through the trouble of coping with all the different variants. But  
> it is better to switch to a machine-format. As soon as you switch  
> to a machine-format, be it KISS or any other raw packet data format  
> you will never have this formatting problem. If you use AGWPE for  
> example you will use the TNC in KISS. The binary layout of a packet  
> is well described in the AX/25 protocol specification. If a program  
> uses this standardized input you will not have a problem. But instead  
> a lot of APRS programs rely on the TNC output that was desined for  
> humans and not machines and there are just too many variants to  
> catch everything.  
>  
> I don't think the APRS specification could ever define this, it should  
> just specify the content of a packet and not how a TNC pleases it to  
> report it.

>  
> I sense that these is some basic misunderstanding between what a TNC  
> reports and what actually goes into the air. Switching timestamps on  
> or off does not change any bit on the aired packet at all. The layout  
> of the trace data is defined in your TNC, its not coming from outside.

What we are discussing is what appears on the Internet feed, and  
that can include this unnecessary information.

>  
> Of course the path as it is presenten in the gated-data should be  
> standardized, but that does not contain <UI> or timestamp information.

This is the essence of the items under discussion. Information not  
necessary to decode APRS packets should not be included in the  
header. Many APRS applications can handle timestamps and <UI>  
correctly, but some may encounter difficulty, and information may be lost.  
Someone mentioned that TNC's by different manufacturers may format  
the header data in different ways, and that it is difficult for an application  
to handle all variants.

IMO, the burden should be placed on the IGATES to ensure that  
TNC's are configured properly or that the unnecessary information  
generated by the TNC is removed before passing data to the Internet.

>  
> Kind regards,  
>  
> Henk.  
>  
>  
Bill KC9XG

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## 292. [aprssig] Re: Bad Data: Update Sunday 4 June

From: David VanHorn <[dvanhorn@cedar.net](mailto:dvanhorn@cedar.net)>  
Date: Mon, 05 Jun 2000 13:27:44 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-88870-2000.06.05-13.45.14--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-88870-2000.06.05-13.45.14--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

At 11:51 AM 6/5/00 +0100, Ian Wade wrote:

>Another set of packets I've just discovered in the 4 June log:

>

>

>

~~~~~  
>N0SMS>APW246,TCPIP*:?APRS?

>ECHO was OFF

>ECHO now OFF

That's truly bizarre!

- - -

Are you an ISP? Tired of spam?

www.spamwhack.com A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----

Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBOTwNQIFlGDz1l6VWEQLpkgCePXpSC5sdJbbs/Q/SEjQcxYrs348AnRUX

MGp6+kbxMnNvVJqnxijOHT7Y

=EURR

-----END PGP SIGNATURE-----

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293. [aprssig] Re: Bad Data: Update Sunday 4 June

From: "Shirley and Frank Mondt" <n0sms@janics.com>

Date: Mon, 5 Jun 2000 13:42:53 -0500

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Message-ID: <LYR842-88871-2000.06.05-13.46.02--lyris.aprssig@lists.tapr.org>

Rendered body type: text/plain

----- Original Message -----

From: Ian Wade <Ian.Wade@care4free.net>

To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>

Sent: Monday, June 05, 2000 5:51 AM

Subject: [aprssig] Re: Bad Data: Update Sunday 4 June

\nv

> Another set of packets I've just discovered in the 4 June log:

>

>

>

>

~~~~~  
> N0SMS>APW246,TCPIP\*:?APRS?

> ECHO was OFF

> ECHO now OFF

> BEACON was EVERY 0 (00 sec.)

> BEACON now EVERY 0 (00 sec.)

> HEADERLN was OFF

> HEADERLN now OFF

> MYCALL was N0SMS

> MYCALL now N0SMS

> ?What?

> MONITOR was 2 (I UI)

> MONITOR now 4 (UA DM C D I UI)

> HID was OFF

> HID now OFF

> MYALIAS was ECHO

> MYALIAS now none

> MSTAMP was OFF

> MSTAMP now OFF

> MYALIAS was none

> MYALIAS now ECHO

> UNPROTO was APW246 via RELAY, WIDE

> UNPROTO now APW246 via RELAY, WIDE

> ALFPACK was ON

> ALFPACK now ON

> ACRDISP was 0

> ACRDISP now 0

> ALFDISP was ON

```

> ALFDISP now ON
> MONITOR was 4 (UA DM C D I UI)
> MONITOR now 2 (I UI)
> MTO was all
> MTO now all
> MDIGI was ON
> MDIGI now ON
> DFROM was all
> DFROM now all
> HBAUD was 300
> HBAUD now 300
> VHF was OFF
> VHF now OFF
> FLOW was OFF
> FLOW now OFF
> FULLDUP was OFF
> FULLDUP now OFF
> PACLEN was 128
> PACLEN now 128
> NEWMODE was OFF
> NEWMODE now OFF
> MRPT was ON
> MRPT now ON
> DIGIPEAT was ON
> DIGIPEAT now ON
> N0SMS>APW246,TCPIP*:>310934 Joplin HF & 2M + I GATE Bringing APRS to SW
Mo.
>
>
~~~~~
>
>
> How ON EARTH did all this junk get onto the wire?
>
>
>
> 73
> Ian, G3NRW
> Technical Editor, APRS Protocol Specification
> ***** Third draft now available *****
> --
> +-----+
> | APRS on 144.800 [IO91SX] ~55km/35 miles NNW of London |
> | email: g3nrw@ar1.net |
> | |
> | APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
> | APRS DECODER: http://www.netro.co.uk/aprs.htm |
> +-----+
>
> ---
> You are currently subscribed to aprssig as: n0sms@janics.com
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
>
>

```

```

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

```

## 294. [aprssig] Re: Position rate

```

From: David VanHorn <dvanhorn@cedar.net>
Date: Mon, 05 Jun 2000 13:31:40 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88873-2000.06.05-13.49.16--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

```

```

>When you deposit a message every minute and have a 1 in 20 chance
>that a digi or base hears it then one message will enter the
>network on average every 20 minutes at irregular intervals. There
>is no way to only deposit messages at corners etc.

```

The HH also has an option to repeat the beacon if it does not hear the repeat from the digi within a certain timeframe. This works well, at least in my field testing.

Last week I was on active skywarn in an area that is at the very fringe of our coverage, yet my track info was very good. (not perfect) Since it doesn't keep repeating the packets (limited retries) it doesn't trash the net either.

- - -

Are you an ISP? Tired of spam?  
www.spamwhack.com A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----

Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBOTwOLIFlGDz1l6VWEQIryACgjaPotTbkJqElcwtXxajkFCDxAfoAn385  
YHtiVWhxj10m9BxChcUnmhs0  
=yNG9

-----END PGP SIGNATURE-----

---

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---

## 295. [aprssig] Re: Bad Data: Update Sunday 4 June

From: "Shirley and Frank Mondt" <n0sms@janics.com>  
Date: Mon, 5 Jun 2000 13:50:15 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-88874-2000.06.05-13.53.18--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

OOOPS!!!! I have NO EARTHLY Idea How this got into the data Stream.  
I was having a problem with AprsDigi at the time. I'm Sorry crew. I will try not to have The Igate open when fooling with the Digi Again.

Frank/N0SMS

----- Original Message -----

From: Ian Wade <Ian.Wade@care4free.net>  
To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Sent: Monday, June 05, 2000 5:51 AM  
Subject: [aprssig] Re: Bad Data: Update Sunday 4 June

> Another set of packets I've just discovered in the 4 June log:  
>  
>  
>

~~~~~  
> N0SMS>APW246,TCPiP\*:?APRS?  
> ECHO was OFF  
> ECHO now OFF  
> BEACON was EVERY 0 (00 sec.)  
> BEACON now EVERY 0 (00 sec.)  
> HEADERLN was OFF  
> HEADERLN now OFF  
> MYCALL was N0SMS  
> MYCALL now N0SMS  
> ?What?  
> MONITOR was 2 (I UI)  
> MONITOR now 4 (UA DM C D I UI)  
> HID was OFF  
> HID now OFF  
> MYALIAS was ECHO  
> MYALIAS now none  
> MStamp was OFF  
> MStamp now OFF  
> MYALIAS was none  
> MYALIAS now ECHO  
> UNPROTO was APW246 via RELAY, WIDE  
> UNPROTO now APW246 via RELAY, WIDE  
> ALFPACK was ON  
> ALFPACK now ON  
> ACRDISP was 0  
> ACRDISP now 0  
> ALFDISP was ON  
> ALFDISP now ON

```

> MONITOR was 4 (UA DM C D I UI)
> MONITOR now 2 (I UI)
> MTO was all
> MTO now all
> MDIGI was ON
> MDIGI now ON
> DFROM was all
> DFROM now all
> HBAUD was 300
> HBAUD now 300
> VHF was OFF
> VHF now OFF
> FLOW was OFF
> FLOW now OFF
> FULLDUP was OFF
> FULLDUP now OFF
> PACLEN was 128
> PACLEN now 128
> NEWMODE was OFF
> NEWMODE now OFF
> MRPT was ON
> MRPT now ON
> DIGIPEAT was ON
> DIGIPEAT now ON
> N0SMS>APW246,TCPIP*:>310934 Joplin HF & 2M + I GATE Bringing APRS to SW
Mo.
>
>
~~~~~
>
>
> How ON EARTH did all this junk get onto the wire?
>
>
>
> 73
> Ian, G3NRW
> Technical Editor, APRS Protocol Specification
> ***** Third draft now available *****
> --
> +-----+
> | APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
> | email: g3nrw@arrl.net |
> | |
> | APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html|
> | APRS DECODER: http://www.netro.co.uk/aprs.htm |
> +-----+
>
> ---
> You are currently subscribed to aprssig as: n0sms@janics.com
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
>
>

```

```

---
You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

```

## 296. [aprssig] Kenwoo D700 question.

```

From: Bill Nolle <wa8inz@earthlink.net>
Date: Mon, 05 Jun 2000 14:00:52 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-88876-2000.06.05-14.03.47--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

I just read the TM-D700 Voice Documentation and i was wondering if there would be a way for someone to come up with a small keyboard to hook to either the Mic input or the Serial port. I would imagine the Mic input would be easier. This is just something i have been wondering about.

Bill Nolle wa8inz

```

---
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```

## 297. [aprssig] Re: Position rate

From: Steve Bragg <steveb@skymaster.c2-tech.com>  
Date: Mon, 05 Jun 2000 14:31:57 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-88878-2000.06.05-14.34.09--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bob Bruninga wrote:

> COMMENT: (Only generally related to HAM HUD)  
> I noticed while traveling in Utah and the Western USA with no digipeater  
> coverage that with an assumed range of 6 miles and speeds of 60 MPH or  
> more, that you only get a probable 3 packets at the one minute rate to  
> capture someone from the opposite direction.. If  
> you only ran 2 minutes, then you only get ONE chance to see each other.

Wow, two ships passing in the night...

> (This has nothing to do with the HH, but it just a reminder that if you  
> are in the open, far from APRS digipeaters, PLEASE run one minute rate.  
>  
> Then back off when you get in town. The HH would probably do this  
> automatically, since it will NOT hear its own digipeats, so it will keep  
> trying at the MAX rate...

This isn't how it works, exactly. HamHUD does, in fact, listen for its own digipeats, and can optionally re-beacon if it does not. However, this re-beacon behavior is SEVERELY limited (and in fact is off by default) to keep HamHUDders from being bad netizens.

SmartBeacon has a inverse-speed-sensitive rate, so it will necessarily speed up at highway speeds, and slow down again at street speeds. So, if the maximum rate is set to one minute and the breakover speed set to 65 MPH, the 1-minute rate will happen at 65 MPH.

You could, though, manually turn up the maximum rate when you're "out in the boonies", just to better your chances of hitting another station.

Or, you could turn up the re-beacon limit to try more times from every beacon. For instance: you might have a beacon every 2 minutes (at 65 MPH), and 3 total retries spaced every 15 seconds. The retry count resets every time HamHUD gets a digipeat.

73,

Steve KA9MVA  
<http://www.c2-tech.com/~steveb/hamhud>

---

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---

## 298. [aprssig] Re: Position rate

From: David VanHorn <dvanhorn@cedar.net>  
Date: Mon, 05 Jun 2000 14:33:05 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-88880-2000.06.05-14.50.38--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----  
Hash: SHA1

>This isn't how it works, exactly. HamHUD does, in fact, listen for its  
>own digipeats, and can optionally re-beacon if it does not. However,  
>this re-beacon behavior is SEVERELY limited (and in fact is off by  
>default) to keep HamHUDders from being bad netizens.

(aprs-holes? :)

- From the road testing I've been able to do, the rebeacon behaviour is very well behaved.

The only situation where it seems it could really be a problem is if you are in an area where a digi can hear you, but you can't hear the digi. I don't know any way to solve this, since by definition you have no way to know.

- - -

Are you an ISP? Tired of spam?  
www.spamwhack.com A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----

Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBOTwckYf1GDz116VWEQKbUgCfcmXJFq2XVB1IZi+ImaFpaQjmpEQAnROL  
GpLrdHJdud/Lvf9z1gZCRHx4  
=hSGt  
-----END PGP SIGNATURE-----

---

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---

## 299. [aprssig] Re: Bad Data: Update Sunday 4 June

From: Ian Wade <[Ian.Wade@care4free.net](mailto:Ian.Wade@care4free.net)>  
Date: Mon, 5 Jun 2000 21:28:46 +0100  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-88884-2000.06.05-15.37.46--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In article <LYR14778-88874-2000.06.05-13.53.18--Ian.Wade#care4free.net@lists.tapr.org>, Shirley and Frank Mondt <[n0sms@janics.com](mailto:n0sms@janics.com)> writes  
>OOOPS!!!! I have NO EARTHLY Idea How this got into the data Stream.  
>I was having a problem with AprsDigi at the time. I'm Sorry crew. I will  
>try not to have The Igate open when fooling with the Digi Again.  
>

Frank, please don't think I was picking on you! As I said earlier today  
in another thread, this kind of thing isn't the user's fault -- the APRS  
software is broken, and shouldn't have allowed this to happen.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

\*\*\*\*\* Third draft now available \*\*\*\*\*

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

---

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---

## 300. [aprssig] Re: Kenwoo D700 question.

From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
Date: Mon, 5 Jun 2000 16:49:14 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-88886-2000.06.05-15.52.46--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Mon, 5 Jun 2000, Bill Nolle wrote:

> I just read the TM-D700 Voice Documentation and i was wondering  
> if there would be a way for someone to come up with a small keyboard  
> to hook to either the Mic input...

Yep! Its in work... I will let the person working on this step forward if  
he wants. Otherwise, I guess we'll hear about it when it i s ready...

Bob

---

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### 301. [aprssig] Re: Bad Data: Update Sunday 4 June

From: wo4u@juno.com  
Date: Mon, 5 Jun 2000 17:05:24 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: aprssig@tapr.org  
Message-ID: <LYR842-88891-2000.06.05-16.10.43--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Mon, 5 Jun 2000 21:28:46 +0100 Ian Wade <Ian.Wade@care4free.net> writes:

> In article  
> <LYR14778-88874-2000.06.05-13.53.18--Ian.Wade#care4free.net@l  
> ists.tapr.org>, Shirley and Frank Mondt <n0sms@janics.com> writes  
> >000PS!!!! I have NO EARTHLY Idea How this got into the data  
> Stream.  
> >I was having a problem with AprsDigi at the time. I'm Sorry crew. I  
> will  
> >try not to have The Igate open when fooling with the Digi Again.  
> >  
> >  
> Frank, please don't think I was picking on you! As I said earlier  
> today  
> in another thread, this kind of thing isn't the user's fault -- the  
> APRS  
> software is broken, and shouldn't have allowed this to happen.  
> >

BUT ...

When in the Terminal Mode, for all flavors of APRS that I have used, TNC Commands can be transmitted out over the air. This provision allows us to use the Remote feature to control a distant TNC. I personally hope we never remove this capability from the APRS User Software or Digi Software. Although this is not the exact basis for this thread - I just wanted to mention it before all the authors ran off and fixed something that was not really broken.

Paul - W04U

---

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<http://dl.www.juno.com/get/tagj>.

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### 302. [aprssig] Re: Bad Data: Update Sunday 4 June

From: "Sadowski, Allan" <allan.sadowski@ncshp.org>  
Date: Mon, 5 Jun 2000 17:15:06 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "'aprssig@tapr.org'" <aprssig@tapr.org>  
Message-ID: <LYR842-88893-2000.06.05-16.14.34--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Paul

I could be misinterpreting the thread... but,

I Don't think they were saying it's bad for connected mode over RF.... how you should be doing sysop kind of stuff with a remote digi....

Rather, the issue is should this be going over the air in UI mode (no) and should it be going over the internet (no)....

ALOHA  
AH6LS

> -----Original Message-----  
> From: wo4u@juno.com [SMTP:wo4u@juno.com]  
> Sent: Monday, June 05, 2000 5:05 PM  
> To: TAPR APRS Special Interest Group  
> Cc: aprssig@tapr.org  
> Subject: [aprssig] Re: Bad Data: Update Sunday 4 June  
> >  
> On Mon, 5 Jun 2000 21:28:46 +0100 Ian Wade <Ian.Wade@care4free.net>  
> writes:  
> > In article  
> > <LYR14778-88874-2000.06.05-13.53.18--Ian.Wade#care4free.net@l  
> > ists.tapr.org>, Shirley and Frank Mondt <n0sms@janics.com> writes



> > >000PS!!!! I have NO EARTHLY Idea How this got into the data  
> > Stream.  
> > >I was having a problem with AprsDigi at the time. I'm Sorry crew. I  
> > will  
> > >try not to have The Igate open when fooling with the Digi Again.  
> > >  
> >  
> > Frank, please don't think I was picking on you! As I said earlier  
> > today  
> > in another thread, this kind of thing isn't the user's fault -- the  
> > APRS  
> > software is broken, and shouldn't have allowed this to happen.  
> >  
> > BUT ...  
> > When in the Terminal Mode, for all flavors of APRS that I have used, TNC  
> > Commands can be transmitted out over the air. This provision allows  
> > us to use the Remote feature to control a distant TNC. I personally hope  
> > we never remove this capability from the APRS User Software or Digi  
> > Software. Although this is not the exact basis for this thread - I just  
> > wanted to mention it before all the authors ran off and fixed something  
> > that was not really broken.  
>  
> Paul - W04U  
>

---

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

---

### 303. [aprssig] Re: Bad Data: Update Sunday 4 June

From: wo4u@juno.com  
Date: Mon, 5 Jun 2000 17:39:42 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: aprssig@tapr.org  
Message-ID: <LYR842-88897-2000.06.05-16.43.55--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Mon, 5 Jun 2000 17:15:06 -0400 "Sadowski, Allan"  
<allan.sadowski@ncshp.org> writes:  
> Paul  
>  
> I could be misinterpreting the thread... but,  
>  
> I Don't think they were saying it's bad for connected mode over  
> RF.... how  
> you should be doing sysop kind of stuff with a remote digi....  
>  
> Rather, the issue is should this be going over the air in UI mode  
> (no) and  
> should it be going over the internet (no)....

I agree with you Allan ... it just seems that so many of these threads  
hit a  
"Y" in the road and start going down other paths ... I felt compelled to  
mention to the Newbies and others that it is not all bad to have  
occasional  
Connected Packets going through a Digi or two. A couple of weeks ago I  
changed a few settings on my TNC at our local EOC from 800 miles away  
using a "secret" path :-) I was so happy that it worked!!

73 Paul - W04U

---

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---

### 304. [aprssig] KCAPRS site coming back to life...

From: Jim Duncan <ku0g@socket.net>  
Date: Mon, 05 Jun 2000 17:41:35 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-88906-2000.06.05-17.44.31--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Here's the latest scoop on [www.kcaprs.org](http://www.kcaprs.org)...

As assumed, the server suffered a catastrophic hard drive failure overnight Friday. As of 5:00 p.m. CDT today (Monday) the site IS responding to [www.kcaprs.org](http://www.kcaprs.org) however you will (temporarily) get a page from Krell Technologies. We are currently working to reload all the pages, images and files that were on the site so please be patient while I complete this process.

EMail should start moving to all @kcaprs.org domains in the next few hours. If you have received bounced email directed to anyone at the @kcaprs.org address they SHOULD automatically be re-trying for five days and should not require you to re-send your email. As a back-up, however, I would encourage you to go ahead and re-send your mail. A few extra duplicate messages isn't going to make much difference at this point (I'm expecting to weed through 500+ messages when things start rolling tonight!).

Since the site has pretty much been hosed, expect that a LOT of the pages may NOT be accessible for a week or two. This whole deal gives me the impetus for a major over-haul/facelift of the site, so I may as well take advantage of it!

I DO have back-ups of most pages and as soon as the FTP server allows me to login I'll be uploading them to get the site operational....

--

73 de Jim, KU0G  
Chairman/Coordinator  
Kansas City APRS Working Group, W0APR  
First Alert Storm Team KMBC-TV9  
Mailto:ku0g@kcaprs.org  
Webpage: <http://www.kcaprs.org>

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---

### 305. [aprssig] Re:

From: James Smith <[squirmy@kiva.net](mailto:squirmy@kiva.net)>  
Date: Mon, 05 Jun 2000 19:21:44 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-88920-2000.06.05-19.27.15--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Record #2562

K9APR>APW246,K4DMU-10\*,WIDE5-1::KD4EVB :I run 2.4.6 here no problems yet.{004

APRS Data Type= Message  
[\*\*\* THIS IS OK, BUT SEE THE NEXT ONE]

Correct looks good here next.

-----

Record #2575  
}K9APR>APW246,K4DMU-10\*,WIDE5-1::KD4EVB :I run 2.4.6 here no problems yet.{004

\*\*WARNING: Invalid callsign '}K9APR'  
APRS Data Type= Message  
[\*\*\* THIS LOOKS LIKE A THIRD-PARTY REPEAT OF THE ABOVE, BUT WITH THE HEADER MISSING]

Not missing Header just extra "character before the callsign" }K9APR look fine in my neighbor hood, I think the APRSServ system needs to be turn off than back on to purge the system or need to get all IGATE operator's all on the same page. But hey glad I made National news tho.

73, James, K9APR  
Tri-State APRS Working Group / Chairman  
<http://www.tawg.org>

---

### 306. [aprssig] June's Invisible Meteors

From: blitz <[blitz@macronet.net](mailto:blitz@macronet.net)>  
Date: Mon, 05 Jun 2000 20:27:11 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-88921-2000.06.05-19.30.19--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Meteor chasers, take note:

>Subject: June's Invisible Meteors  
>  
>NASA Science News for June 6, 2000  
>  
>During the next week thousands of meteors will streak through  
>the sky, but don't expect to see many. They are the Arietids and  
>zeta Perseids -- the most intense daytime meteor showers of the  
>year. The best way for many meteor enthusiasts to enjoy the show  
>is by listening to meteor echoes on a common FM or ham radio.  
>  
>FULL STORY at  
>  
>[http://spacescience.com/headlines/y2000/ast06jun\\_1m.htm?list](http://spacescience.com/headlines/y2000/ast06jun_1m.htm?list)  
>\_\_  
  
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---

### 307. [aprssig] How do you compute distance between two points

From: Richard Parry <rparry@qualcomm.com>  
Date: Mon, 05 Jun 2000 17:57:26 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-88926-2000.06.05-20.00.26--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain  
  
Anyone know the formula or algorithm needed to compute the distance between two points given their lat and lon. For example, what is the distance in miles between 33.00N, 117.00W and 30.00N, 110.00W. This strikes me as a tricky computation due to changes in longitudinal lines over the surface of the earth.  
  
thanks in advance,  
Rich Parry, W9IF  
  
---  
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---

### 308. [aprssig] Re: Precision Mapping v 3.5

From: "Lumpy" <lumpy@digitalcartography.com>  
Date: Mon, 5 Jun 2000 21:44:16 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-88930-2000.06.05-20.48.07--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain  
  
Nick Critelli wrote:  
> ...Carol at Chicago Maps still has ver 3.5 available...  
  
> ...By the way this company seems to be very  
> supportive of APRS...  
  
I find that I must disagree with your 'very supportive' observation, Nick.  
  
I was one of the early PM dealers. They contacted me to try and get me to sell their disks to other APRSheads.  
  
Not long after that, they changed data formats (ver 4.0) and that was not compatible with APRS. They've been saying for about 3 years now that 'any day now' they would have the ocx to make it all work with the new data.  
  
Next we heard that ver 4.0 didn't have GPS support, like 3.5. Then we heard that the APRS version of 4.0 would require an entirely separate CD than the normal consumer version.  
  
One day I tried calling to ask about ver 3.x availabilty. I kept calling back and getting different answers ranging from -  
'no we don't have it'  
"yes, it's \$9.95"  
"yes, it's \$19.95"  
"yes, it's \$39.95"

I'm impressed with the interaction and I'm glad Sproul's have continued support. But I wish PM would settle on a market niche and stick with it.

Bottom line...I wouldn't pay more than \$9.95 for the ver 3.5 CD. If they tell you they don't have it, call back later.

Lumpy n0eq

--

The Very Unofficial Colorado APRS Page  
<http://www.digitalcartography.com>

---

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---

### 309. [aprssi] Re: How do you compute distance between two points

From: Steve Bragg <steveb@c2-tech.com>  
Date: Mon, 05 Jun 2000 21:29:28 -0500  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-88933-2000.06.05-21.33.23--lyris.aprssi@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Richard Parry wrote:

>

> Anyone know the formula or algorithm needed to compute the distance between  
> two points given their lat and lon. For example, what is the distance in  
> miles between 33.00N, 117.00W and 30.00N, 110.00W. This strikes me as a  
> tricky computation due to changes in longitudinal lines over the surface of  
> the earth.

Hi Richard,

Yes, you use spherical trigonometry. Here is a great website for that kind of algorithm:

<http://www.angelfire.com/nt/navtrig>

There are several variants there.

In the HamHUD, I started out using spherical trig, but soon found that for most short distances, a "modified flat earth" model is almost as good, and a whole lot simpler (read: takes up less space). You are welcome to the algorithm in the HamHUD source code, which is at:

<http://www.c2-tech.com/~steveb/hamhud>

Download and unzip the firmware zip file, and look in the .c file for "PrintRangeAndBearing".

73,

Steve Bragg KA9MVA

--

Steve Bragg KA9MVA, RF Engineer  
C2 Technologies, Inc.  
Nine East Fourth St.  
Tulsa, OK 74055  
<http://www.c2-tech.com/~steveb>

Find me with APRS! <http://map.findu.com/ka9mva-6>

"#define QUESTION ((2b) || !(2b))"  
- Shakespeare

---

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---

### 310. [aprssi] NWS Weather Radio SAME county codes

From: "Jim Gill" <gillj@uswest.net>  
Date: Mon, 5 Jun 2000 22:41:51 -0500

To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-88938-2000.06.05-22.53.15--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The following URL will take you to a state-by-state list of the SAME county number codes used by NWS weather radio units that offer the decoding. The county numbering is the same as Dale Huguley's EMWIN data parser that puts packets on TCP/IP... so now when a county number comes across, you can look it up.

<http://www.nws.noaa.gov/nwr/indexnw.htm>

In each state's list, you will see data like this (example):

| ST. | COUNTY   | SAME # | NWR TRANSMITTER | FREQ.   | CALL  | WATTS | REMARKS |
|-----|----------|--------|-----------------|---------|-------|-------|---------|
| NE  | Adams    | 031001 | Grand Island NE | 162.400 | WXL74 | 1000  |         |
| NE  | Antelope | 031003 | Norfolk NE      | 162.550 | WXL77 | 800   |         |
| NE  | Arthur   | 031005 | North Platte NE | 162.550 | WXL68 | 1000  |         |
| NE  | Banner   | 031007 | Scottsbluff NE  | 162.475 | WXL67 | 1000  |         |
|     | etc      | etc    |                 |         |       |       |         |

The first three numbers in the SAME# are the state number; the last three digits are the county number. As a bonus, each state list gives you the NWS radio frequency and transmitter location.

I don't have a cross-reference source yet for the \*Zones\* but I am working on it.

The location of this state-by-state list was provided to me by N5RIG, electronics tech for NWS Valley-Omaha. Thanks Geri!

<http://www.nws.noaa.gov/nwr/indexnw.htm>

Jim Gill  
NORMO  
Omaha, NE

---

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---

### 311. [aprssid] County Outline Maps

From: "Jim Gill" <gillj@uswest.net>  
Date: Mon, 5 Jun 2000 22:48:24 -0500  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-88939-2000.06.05-22.59.50--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

And something else I found as a followup, here's a link for state maps with county outlines and names for reference:

[http://www.lib.utexas.edu/Libs/PCL/Map\\_collection/county\\_outline.html](http://www.lib.utexas.edu/Libs/PCL/Map_collection/county_outline.html)

Jim NORMO

Subject: NWS Weather Radio SAME county codes

> The following URL will take you to a state-by-state list of the SAME  
> county  
> number codes  
> <http://www.nws.noaa.gov/nwr/indexnw.htm>

---

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---

### 312. [aprssid] Whither Pharos GPS?

From: Mike Musick <mcmusick@anet-stl.com>  
Date: Tue, 6 Jun 2000 00:56:01 -0700  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-89020-2000.06.06-01.01.31--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I'm getting the impression that the Pharos GPS has turned to vapor, and that the handful who have them now own a small piece of GPS marketing

history.

Two weeks of trying to make contact with these folks has been fruitless. A real person never answers the phone, they do not return voice mails, nor do they respond to e-mails or faxes. All there is to document that they exist at all is their web page (<http://www.pharosgps.com>), and those pages haven't been touched since mid-January, including several "under construction" pages.

This by all appearances could have been a very interesting product, though direct sales probably wasn't the market they were after. Anybody know anything current about this outfit? (Or does anybody live in the L.A. South Bay who can go knock on their door?)

...mike/N0QBF

---

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---

### 313. [aprssig] Re:

From: Ian Wade <[Ian.Wade@care4free.net](mailto:Ian.Wade@care4free.net)>  
Date: Tue, 6 Jun 2000 06:42:49 +0100  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-89046-2000.06.06-01.05.27--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-89046-2000.06.06-01.05.27--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

In article <[LYR14778-88920-2000.06.05-19.27.15--Ian.Wade#care4free.net@lists.tapr.org](mailto:LYR14778-88920-2000.06.05-19.27.15--Ian.Wade#care4free.net@lists.tapr.org)>, James Smith <[squirmy@kiva.net](mailto:squirmy@kiva.net)> writes

>  
> Not missing Header just extra "character before the callsign"  
> }K9APR look fine in my neighbor hood,

OK.

>But hey glad I made  
> National news tho.  
>

Wrong! You made INTERnational news :-))

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

\*\*\*\*\* Third draft now available \*\*\*\*\*

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

---

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---

### 314. [aprssig] Re:

From: Bruno Quesnel <[quesnelb@ve2.ele.etsmtl.ca](mailto:quesnelb@ve2.ele.etsmtl.ca)>  
Date: Tue, 06 Jun 2000 07:29:42 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-89059-2000.06.06-06.30.49--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-89059-2000.06.06-06.30.49--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

James Smith wrote:

> Record #2562  
> K9APR>APW246,K4DMU-10\*,WIDE5-1::KD4EVB :I run 2.4.6 here no  
> problems yet.{004  
> APRS Data Type= Message  
> [\*\*\* THIS IS OK, BUT SEE THE NEXT ONE]  
>  
> Correct looks good here next.  
>  
> -----  
> Record #2575  
> }K9APR>APW246,K4DMU-10\*,WIDE5-1::KD4EVB :I run 2.4.6 here no

```
> problems yet.{004
> **WARNING: Invalid callsign '}K9APR'
> APRS Data Type= Message
> [*** THIS LOOKS LIKE A THIRD-PARTY REPEAT OF THE ABOVE, BUT
> WITH THE HEADER MISSING]
>
> Not missing Header just extra "character before the callsign"
> }K9APR look fine in my neighbor hood, I think the APRSServ
> system needs to be turn off than back on to purge the system or
> need to get all IGATE operator's all on the same page. But hey
> glad I made National news tho.
>
```

Is there or could their be a publicly available web page of all the IGATE operators with contact (most possibly email) ????. This could be practical for situation like this one last week-end... I'd be willing to host this type of page....

```
> 73, James, K9APR
> Tri-State APRS Working Group / Chairman
> http://www.tawg.org
```

```
--
Bruno Quesnel                                bruno.quesnel@mindready.com
VA2BMG                                       quesnelb@ve2.ele.etsmtl.ca
Stagiaire - MindReady Solutions
1375 route Trans-Canada, bureau 400
Dorval H9P 2W8
tel.: 514-685-2003 poste 304
```

---

### 315. [aprssid] Off Topic - Email attachments & garbage

```
From: BordingK@aol.com
Date: Tue, 6 Jun 2000 07:28:34 EDT
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Message-ID: <LYR842-89060-2000.06.06-06.32.08--lyris.aprssid#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

This is off topic so please reply to me directly: This is for some of the more sophisticated email types.

Another email list that I'm one has a problem when some individuals send attachments. The basic email and the attachment get merged into one file with a .txt suffix and are unreadable to most. The writers seem to be using Outlook, Outlook Express, Endora, etc. We have no problem with basic email, just when they have attachments.

A raging debate is eating up bandwidth there and many of the files have to be relayed and resent so all can view them.

Are there settings that can be turned off on those more sophisticated programs to keep the basic message as text and the attachment in its original form, usually JPGs.

Thanks in advance and please reply directly.

73s DE W5KNB  
Ken

```
---
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```

---

### 316. [aprssid] QRZ Atlanta, GA???

```
From: "Lee Dahlen" <kd4tqz@qsl.net>
Date: Tue, 6 Jun 2000 10:35:15 -0700
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>
Message-ID: <LYR842-89068-2000.06.06-09.32.01--lyris.aprssid#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

Any late nighters in Atlanta??? Will be making a run ( CLT-ATL Round trip) on Wednesday night/Thursday am. Current plans (Subject to chg.) are to be in ATL around 3-5am. turn and hook at Marmon/Keystone corp on Blue ridge in Norcross and go home. Will have the D700 and the D7 (G upgraded) as well as a new prototype carrying case for the D7 with me.

Coffee anyone??

Lee/KD4TQZ

---

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### 317. [aprssig] DIGI's in Columbus Ohio

From: Guy Story <[kc5goi@tapr.org](mailto:kc5goi@tapr.org)>  
Date: Tue, 6 Jun 2000 10:12:35 -0500 (CDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-89076-2000.06.06-10.15.27--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-89076-2000.06.06-10.15.27--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Hello everyone. I am going to be in the Columbus Ohio area this weekend and was wondering if someone could give me the calls of the local digi's. I plan to take my portable APRS setup with me. Be watching for kc5ogi-12. I would rather use specific calls instead of call aliasing.

73,

Guy Story  
KC5GOI  
[kc5goi@tapr.org](mailto:kc5goi@tapr.org)  
<http://www.kc5goi.net>

---

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---

### 318. [aprssig] Re: SV6 GPS Info Needed on RS 232 ( Max chip connection )

From: Samuel Barker <[srbarker@chgw.com](mailto:srbarker@chgw.com)>  
Date: Tue, 6 Jun 2000 09:28:49 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-89081-2000.06.06-10.33.26--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-89081-2000.06.06-10.33.26--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

I found an eeprom flash utility that will change the output format. You can switch back and forth. I now have two of the SV6 units from Communications Surplus spitting out NMEA sentences (GGA and TVG).

The file name for the flash utilities is cm3updat.zip.

Samuel, W7YYY

-----Original Message-----

From: [bounce-aprssig-17117@lists.tapr.org](mailto:bounce-aprssig-17117@lists.tapr.org)  
[<mailto:bounce-aprssig-17117@lists.tapr.org>] On Behalf Of Tim Cunningham  
Sent: Saturday, June 03, 2000 10:08 AM  
To: TAPR APRS Special Interest Group  
Subject: [aprssig] Re: SV6 GPS Info Needed on RS 232 ( Max chip connection )

> I did see a message about a week ago that these Units require the  
> addition of an RS232 converter ( Max chip 232 ).  
>  
> Would some one out there please post the details on what is required  
> and a diagram.  
>  
> Hopefully we are looking at purchasing a few of these and any info would  
> be appreciated..

I spoke with the folks at Communications Surplus about the Trimble SV6 yesterday.

This is what I learned:

They are \$49 each (circuit board) and come with a Trimble antenna.  
It is a 6 channel unit.  
Sends data each second.  
It comes with some demo software.  
It outputs a TTL signal, so an RS232 converter is needed if connecting to a serial port on a computer.  
It outputs data in TAIP format and does not support NMEA083.



They told me to visit ftp://ftp.trimble.com/pub/sct/embedded/bin and download the file tk510.exe for more information.

It sounds like a great deal, but if you need NMEA083 output, it will not work without external decoding and translation.

73's,

Tim - N8DEU  
Huntsville, Alabama

---

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### 319. [aprssig] Esta cansado de navegar.

From: info@semanal.com  
Date: Tue, 6 Jun 2000 08:11:38  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89091-2000.06.06-10.50.32--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Esta cansado de navegar y navegar por Internet buscando los productos que necesita?

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Bajo el decreto S.1618 titulo 3ro. Aprobado por el 105 congreso base de las normativas internacionales sobre SPAM, este E-mail no podra ser considerado SPAM mientras incluya una forma de ser removido.

Si desea ser automaticamente eliminado de nuestra base de datos por favor envie un E-mail a: [Removemn@Yahoo.com](mailto:Removemn@Yahoo.com) colocando en el asunto: ELIMINAR y sera removido.

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### 320. [aprssig] Re: Position rate

From: tarnerich@in-situ.com (Tony Arnerich)  
Date: Tue, 6 Jun 2000 12:35:10 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89144-2000.06.06-13.39.12--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

"Henk de Groot (EMN)" <Henk.de.Groot@emn.ericsson.se> wrote:

>Well, thats a suitable answer for areas well-served by digipeaters.  
>I did some tracking last weekend and went into a not so well covered  
>area (there are still lots of those areas in Europe, we are juist  
>in the phase of buildup and need to aquire more enthousiast hams).  
>  
>During the drive in that area there are signals on the APRS QRG but  
>the flutter and fading while driving kills most of the packets.  
>  
>Only occasionally a packet would make the TH-D7 beep and show the  
>information. To successfully deposit tracking information in such  
>an environment you need to have frequent transmissions and  
>hopefully some of your packets will just be transmitted on the  
>right time to be picked up by a digi or basestation.

There is some truth and some misconception in that statement.

A more accurate version would be: To successfully deposit tracking information in such an environment you need to make your transmissions from locations in which there is a good RF path to a digipeater.

If your beacon events are timed and not under your direct control, it is true that the only recourse is overkill via frequent transmissions, most of which can be predicted in advance to fail. This is because in marginal areas most beacons will originate from areas in which the signal propagation is known in advance to be poor. If there was a way to beacon primarily from hilltops or other locations of relatively higher elevation you will have the best chances to be heard. But how can you do that?

The SmartBeacon algorithm as it stands today only looks at what is happening in the horizontal plane. It has no knowledge of the interfering topography (your hills and valleys, your vegetation cover, your cities and their buildings, etc). Now that Selective Availability has been eliminated it might be reasonable to consider designing in a sensitivity to the vertical dimension as well, to have it send beacons at each hilltop as you travel. But this is probably still not going to be reliable without DGPS corrections, too much noise remains in the position fixes, whereas just a few feet of elevation change can make all the difference.

Even without a reliable automatic method of identifying those locations favorable to RF, wonders can still be performed manually. The HamHUD for example has a push button that was included for exactly this purpose. Within 1 or 2 seconds of the push a new beacon will be sent, all you have to do is to push it when you are about to reach the crest of the hill. I tested this in areas at the fringes of our local coverage. Even beacons going out at 1 minute intervals in the past have had extremely low success rates, perhaps 1 in 10 happened to occur at favorable locations (I would find myself hoping for the transmissions to happen at the right time, even to the point of altering my speed to help this happen). But in this same area every single manual "hilltop" beacon made it through. Your statistics will vary because your network and geography differ from mine, but the underlying physics are the same. Transmissions sent from bad locations will usually fail.

The HamHUD is not unique in providing a beacon on demand. I am just using it as an example that I know well enough to use as an illustration. I know that WinAPRS can do the same job by pushing the F2 key on a PC; a Mic-E also has an easy access to the beacon function.

What future developments are in store once we begin to actually interpret the data that is given to us by the GPS and the TNC? How smart can an APRS tracker become once we make full use of a computing device that listens to the data streams from those devices?

One thing that is within reach right now but for a lack of programming is to remember locations that have generated successful beacons in the past. If you retrace a path from which you have had beaconing success, your tracker could know in advance to try to send another beacon from those same locations. It could learn the topography and adapt it's strategy for maximum probability of success. There would still be other beacons sent out at other locations which would provide additional probes. Any success would be remembered and be available for future use. A very similar algorithm has worked in the area of Genetics for many hundreds of millions of years.

A further application of the available computing power is to probe the network characteristics, to learn about the RELAY, WIDE, WIDEn, TRACEn, or IGate status of the local digipeaters. Beacons can be sent out with purposefully chosen paths in order to gauge the response of the local network. The results could even be combined with GPS data so that as you

drive into different areas, the tracker would reconfigure itself to the previously discovered knowledge of the local conditions.

Those two intelligent tracker behaviors do not exist today as far as I know. But many people today use laptop computers in their APRS trackers; think of the vast computing resources and data storage that they possess. The only thing lacking is a program that has been written for it. Some of those behavioral extensions could be even squeezed into a simple device that uses a PIC microprocessor along with an external data storage medium such as an EEPROM or an FRAM.

>There is a  
>very low probability that you will also hear your own digipeated  
>packet back because the transmit/receive window for successful  
>reception or transmission is very short and changing constantly.  
>In this environment it is also \*very\* important that the packet  
>is as small as possible; only MIC-E and no status text.

You need to assess whether or not it is critical to receive 100% proof in the digital realm that you were digipeated. The human could always listen to the packet audio, that can give some indication of success. Your tracker would not have the information directly, but the human could if necessary adjust the tracker's parameters if some adaptation would improve the success rate.

Also, with a powerful computing device you could even consider a system in which you have PASSALL ON (after all, this is not a digipeater we are talking about, it's a tracker). Then you could use pattern recognition to decide if a heard packet was "close enough" that it probably was a digipeat. The call sign, the time stamp, the latitude and longitude, and the NMEA checksum can each serve as checks on the identity of the packet - if any two or three are an exact match, the chances are extremely high that it really is a copy.

>While I think the HamHud is really smart at things, in such an  
>environment it does not work.

It is true that it is not a stand alone infallible system that never requires adjustment by the operator. It will not obsolete the need to exercise station control.

But it is very flexible and easily configurable, you could even program it to send out time-triggered beacons as often as 30 seconds if that is what works best in your specific circumstances. A simple TNC is also easily adjustable to different timed rates, but only if you have a terminal device attached to it.

>As far as I see the smart protocol  
>relies on having good or reasonable digis and bases. If not then  
>it has to drop back to the trail method like everybody else.

It cannot flatten out your hills for you. You might have to push a button with your finger at the top of the hill. In simple terms, SmartBeacon cannot change the laws of Physics, in the form of improving pre-existing poor RF propagation. Then again, no number of frequently sent beacons will ever make it out of an RF hole. There are limits to everything.

>So your answer is good, but not the solution to every APRS Tracking  
>problem.

In purely automatic mode, you are correct that it has no "RF sixth sense" any more than any other APRS equipment. But there is an easily accessible button which lets you add additional beacons from locations that the human judges to be reasonably better than the surrounding terrain. We are in no danger of obsoleting the need for a control operator at any time soon!

73,  
Tony KD7CEJ

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### 321. [aprssig] RE: How do you compute distance between two points

From: pc@mds.com (Alfred Lee, Mail List Account)  
Date: Tue, 6 Jun 2000 12:12:42 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Message-ID: <LYR842-89149-2000.06.06-14.18.50--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

Hi Rich,

Here's a slightly different implementation in C. It is slightly better over a larger region at high latitude. I have no clue how good (or bad) it is over the continent.

Regards,  
Alfred

p.s. atan2\_al is just atan that does not bomb on dx == 0.0.

```
double deg2mile (double e1, double n1, double e2, double n2, double *head) {
/* long/lat in degree; returns distance */
    double dx, dy;
    const double cir = 24900;

    dx = cir * (e2 - e1) / 360 * cos (n1 / 180. * PI);

    dy = cir * (n2 - n1) / 360;

    if (head != NULL) {
        *head = 90 - atan2_al (dy, dx) / PI * 180;
        if (*head < 0.0) {
            *head += 360.;
        }
    }

    return (sqrt (dx * dx + dy * dy));
} /* deg2mile */
```

-----  
From: Richard Parry[SMTP:rparr@qualcomm.com]  
Sent: Monday, June 05, 2000 5:57 PM  
To: TAPR APRS Special Interest Group  
Subject: [aprssid] How do you compute distance between two points

Anyone know the formula or algorithm needed to compute the distance between two points given their lat and lon. For example, what is the distance in miles between 33.00N, 117.00W and 30.00N, 110.00W. This strikes me as a tricky computation due to changes in longitudinal lines over the surface of the earth.

thanks in advance,  
Rich Parry, W9IF

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## 322. [aprssid] Re: DIGI's in Columbus Ohio

From: Robbie Robertson <mrobertson@mediaone.net>  
Date: Tue, 06 Jun 2000 14:19:00 -0500  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssid@lists.tapr.org>  
Message-ID: <LYR842-89150-2000.06.06-14.20.54--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

Guy Story wrote:

```
>
> Hello everyone. I am going to be in the Columbus Ohio area this weekend
> and was wondering if someone could give me the calls of the local
> digi's. I plan to take my portable APRS setup with me. Be watching for
> kc5ogi-12. I would rather use specific calls instead of call aliasing.
>
> 73,
>
> Guy Story
> KC5GOI
```

> kc5goi@tapr.org  
> http://www.kc5goi.net  
>  
> ---

Hi Guy, Don't know if you did this or not already, but  
I found from a 24 hr feed from Aprsserve, only three  
stations show up in or near Columbus!!

ka8zny-4, n8wct, and kb8ssh

Not too many to choose from, hi

Robbie

--  
-----  
Are we having fun yet?  
73 - Robbie - WA9INF  
\*\*\*\*\* --... -- \*\*\*\*\*

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### 323. [aprssig] Re: AEA PK-88 help

From: "Kevin McKay" <n7urw@hotmail.com>  
Date: Tue, 06 Jun 2000 12:32:47 PDT  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: aprssig@lists.tapr.org  
Message-ID: <LYR842-89154-2000.06.06-14.35.41--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I didn't see a response to this, so I'll give it a whack.  
I run a PK-88, DosAPRS, on an old x286 machine at my QTH. the initAEA file  
has worked from day one for me.  
For field Day, just remember that the PK-88 is a power hog, 1/2Amp at  
12Volts.  
Having bought the '88 used without manuals, would any one be willing to  
post/copy the command set with breif descriptions? Or point those of use  
fortunate enough to have these paperweights, to their location?

73 de N7URW, Kevin

-----Original Message Follows-----  
From: "Andrew Witham W1SAR" <w1sar@searcher.org>

I am presently configuring a Citadel 486, Garmin GP-45, to work with a AEA  
PK-88 and a Radio Shack HTX-242, to use as a Field Day demo unit.

I believe that I have followed all the set-up instructions, and followed  
advice in trouble.txt, and hope that someone can put me right.

Documents say...

"TNC-TYPE: There are two basic types of TNC, the TAPR-2 clones and the AEA  
products. They display received packets differently. APRSdos is written  
around the TAPR-2 types such as TINY-2, MFJ, Kantronics, etc. All AEA  
packets are first converted into TAPR format within APRSdos, that is why it  
needs to know what type of TNC you are using. One CAUTION: The AEA PK80 is  
a TAPR-2 standard TNC, so if you use the PK80, then do \*not\* answer AEA as  
your type of TNC..."

Is a PK-88 TAPR-2 standard? What TNC option should I select with APRStch?

and

"AEA PRODUCTS: Since some of the AEA setup commands are different than the  
standard, you must tell APRS that you are using an AEA so that it will use  
the commands in InitAEA.TNC. Also, the AEA monitor format is different. In  
some early models of the PK-12, the monitor function was not correct. If  
you add the command BBSMSG ON to the InitAEA.TNC file, then the PK-12  
will emulate the standard TAPR monitoring function and work properly."

As the PK-12 superceeded the PK-88, do I need BBSMSG ON in the InitAEA.TNC  
file (if indeed I need the AEA init file)?

I have no manual for the TNC, but have sourced configurations for the cables, so I don't think that there is a problem there. I have serial communications between the PC & the TNC, but I lack the experience to recognize if this 'looks right' or not.

Any and all suggestions gratefully received.

Drew WISAR

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## 324. [aprssig] Re: Whither Pharos GPS?

From: Jeff King <[jeff@aerodata.net](mailto:jeff@aerodata.net)>  
Date: Tue, 06 Jun 2000 17:00:33 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-89166-2000.06.06-16.01.33--lyris.aprssig@lists.tapr.org](mailto:LYR842-89166-2000.06.06-16.01.33--lyris.aprssig@lists.tapr.org)>  
Rendered body type: text/plain

Mike:

I like all in one units, like the GPS-35. So this product interested me enough to try the same thing you have been doing.

Called general number, got the general mailbox. Didn't appear to be any sales number.

Went to investors page, which is one of the few that is not under construction, called CEO, got same general voice mailbox.

>James Oyang, Ph.D., President/CEO, 310-212-7178  
(I think this actually was the same number)

Called number for CFO, noted it was not the same company, got his voice mail.

>Joseph Tseng, CPA, CFO, 626-799-1626

He is gone for the week. I left message indicating the Pharos voicemail system didn't have a "sales" extension.

The got on whois, and it came back with this:

>Oyang, James (J05646) [oyang@PHAROS-INC.COM](mailto:oyang@PHAROS-INC.COM)  
>Pharos Science & Applications, Inc.  
>2291 W. 205th St. #202  
>Torrance, CA 90501-1451  
>310-212-7088 (FAX) 310-320-1803

And I tried that number as well, got the same general mailbox again. However, this time I entered his name and \_of course\_, got voice mail (but it was his!). Told him I was an automotive OEM (hey, I am in Detroit!) and to get back to me. I assure you if he doesn't at least try, he has nothing to sell anyone.

To me, this looks like yet another shell company that is more focused on the IPO then the technology. Kinda makes sense that things have come to a halt as the bottom has dropped out of the technology IPO market in the last 6 months.

If you looking for a small GPS using the SiRF chip set, you might check out uBlox (sp?) out of Switzerland. They make one just as small as these guys, and they appear to be a real company selling real product. Sam Wormley even did a review of one. Sorry, don't have any of the links handy.

Good luck

Jeff

Mike Musick wrote:

> I'm getting the impression that the Pharos GPS has turned to vapor, and  
> that the handful who have them now own a small piece of GPS marketing  
> history.

>  
> Two weeks of trying to make contact with these folks has been fruitless. A  
> real person never answers the phone, they do not return voice mails, nor do  
> they respond to e-mails or faxes. All there is to document that they exist  
> at all is their web page (<http://www.pharosgps.com>), and those pages  
> haven't been touched since mid-January, including several "under  
> construction" pages.  
>  
> This by all appearances could have been a very interesting product, though  
> direct sales probably wasn't the market they were after. Anybody know  
> anything current about this outfit? (Or does anybody live in the L.A. South  
> Bay who can go knock on their door?)  
>  
> ...mike/N0QBF  
>  
> ---  
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### 325. [aprssig] Re: How do you compute distance between two points

From: "Mark L. Elliott" <marklelliott@home.com>  
Date: Tue, 06 Jun 2000 16:27:48 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89170-2000.06.06-16.29.33--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At one time a similar question was posted on the sig and someone replied with a great little BASIC program that worked great. I don't have it anymore as my hard drive crashed a few weeks ago and lost everything. Maybe that someone will read this and post it again...

Mark N9WST

Richard Parry wrote:

> Anyone know the formula or algorithm needed to compute the distance between  
> two points given their lat and lon. For example, what is the distance in  
> miles between 33.00N, 117.00W and 30.00N, 110.00W. This strikes me as a  
> tricky computation due to changes in longitudinal lines over the surface of  
> the earth.  
>  
> thanks in advance,  
> Rich Parry, W9IF  
>  
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### 326. [aprssig] Callsign Change

From: "Brian B. Riley" <brianbr@macconnect.com>  
Date: Tue, 6 Jun 2000 17:35:58 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89176-2000.06.06-16.38.50--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

By the time most of you read this the callsign on the KA2BQE-3 APRS WideN-N digi and weather station will have been changed to N1BQ-3 and my mobile D700 and Handheld D7 calls will be N1BQ-8 and N1BQ-7 respectively.

--  
Brian B. Riley, N1BQ (ex-KA2BQE)  
<<http://www.wulfden.org>>

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### 327. [aprssid] Kantronics ???

From: John <johnk.mchugh@worldnet.att.net>  
Date: Tue, 06 Jun 2000 17:38:58 -0400  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-89177-2000.06.06-16.39.32--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I've been unable to connect with Kantronics.com, as something happened to them while I was gone on vacation.

John

--

John Mc Hugh, KU4GY  
Coordinator for Amateur Radio  
National Hurricane Center, W4EHW  
Miami, Florida  
Home Page: <http://www.fiu.edu/orgs/w4ehw/>

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### 328. [aprssid] sick idea??

From: "George Kammerzell N0ZED" <n0zed@rmaprs.org>  
Date: Tue, 6 Jun 2000 15:40:36 -0600  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Cc: <aprssid@lists.tapr.org>  
Message-ID: <LYR842-89179-2000.06.06-16.46.50--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

you PICers out there , could smothing like smart digi get stuffed into a pic , flea market TCM a radio and a pic..hmmm. We are getting ready to put up some old laptops with one of the smare digi programs , but bothers me is computer with soft power switched if they go down we will have to go up and restart them , if a pic would work hmmm. would a RTC be needed ....ect ....???

---

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### 329. [aprssid] Going Digital... Ham Radio?

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Tue, 6 Jun 2000 18:28:55 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-89187-2000.06.06-17.32.26--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Packet Radio Affectionados,

We have had packet radio for 22 years and yet we are seeing a decline of digital operations on HAM radio (with some exceptions) at the same time that we are seeing an Explosion of Wireless digital applications in the consumer market.

We are not doing a good job of promoting nor explaining what digital is all about. The following message I received says it all...

> 26 May, 2000  
> From: [not published, but with permission]  
> Bob,  
>  
> I really enjoyed your Op-Ed published in June's QST "Going Digital".  
> I'm one of those hams who knows nothing about TNCs and how to use them.  
> I've been searching the Internet and asking around and have yet to find  
> a comprehensive source for information on it. All I want to do is  
> connect my computer to my HT and connect to other hams doing the same.  
>  
> The lack of information seems to be pervasive. I'm a member of a newly  
> formed club of hams working at Microsoft in Redmond, WA and when I  
> suggested that a monthly meeting be dedicated to a demonstration of  
> packet radio, we found that nobody in our 80 member club had either the  
> equipment or the knowledge to present the topic....  
> Sincerely  
> [name on file]



If HAMS at Microsoft are not familiar with Packet Radio, then it is easy to see why we are where we are today with amateur packet radio... With all the world going digital and Now that Kenwood and Alinco are making off-the-shelf 9600 baud systems, AMATEUR PACKET RADIO IS ONLY BEGINNING! Lets reach out....

de WB4APR, Bob

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### 330. [aprssig] Re: Kantronics ???

From: "Jeff Brenton" <[jeffb@espi.com](mailto:jeffb@espi.com)>  
Date: Tue, 6 Jun 2000 22:37:56 -0000  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-89190-2000.06.06-17.41.11--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

<http://206.79.242.174/> will get you to Kantronics. Something is screwy with their DNS server - if you directly access the primary name server, you can resolve the address... but, several "regular" servers got lost at Internic.

The Kantronics site IS up, and reachable, though.

Jeff Brenton, Amateur Radio call sign KA9VNV  
<http://espi.com>  
Questionable web page: <http://dididahdahdidit.com>

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### 331. [aprssig] Re: [amsat-bb] FD2000

From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
Date: Tue, 6 Jun 2000 18:45:33 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: "Joel B. Black" <[jbbblack@mindspring.com](mailto:jbbblack@mindspring.com)>, AMSAT BB <[amsat-bb@AMSAT.Org](mailto:amsat-bb@AMSAT.Org)>, TAPR APRS Special Interest Group <[aprssig@tapr.org](mailto:aprssig@tapr.org)>, TAPR APRS Satellite Special Interest Group <[aprssat@lists.tapr.org](mailto:aprssat@lists.tapr.org)>  
Message-ID: <LYR842-89191-2000.06.06-17.49.26--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Tue, 6 Jun 2000, Andy MacAllister wrote:

> We will not be making any changes to the AMSAT FD rules this year.  
> They can be found at <http://www.amsat.org/amsat/activities/amsatfd.html>

\* Satellite digipeat QSO's do not count for any score...

WOHAA? While I understand the basis for this in years past when MIR was the only active DIGIPEATER in space and DIGIPEATING was not desired, but now we have SUNSAT, and THREE 1200 baud PSK satellties with DIGI enabled for APRS (A016, L019, IO26) and maybe more, this "rule" seems counterproductive to current digital operations...

I do Field Day for fun, not points, but this "rule" seems to be kinda archaic?

de WB4APR, Bob

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### 332. [aprssig] Questions

From: emick <emick@jbic.com>  
Date: Tue, 06 Jun 2000 18:55:17 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89193-2000.06.06-17.52.48--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hate to bother you but I want to register and have a question regarding what the gps & wx ultimeter registrations do.  
Just getting started have had winaprs for a while and getting ready to test the waters. Really looks as if aprs. dos is more in line with the outdated computers I have. Thanks in advance!

Charles Emick  
KB8PXM

---

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### 333. [aprssig] Re: [amsat-bb] FD2000

From: David VanHorn <dvanhorn@cedar.net>  
Date: Tue, 06 Jun 2000 17:42:49 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "Joel B. Black" <jbblack@mindspring.com>, AMSAT BB <amsat-bb@AMSAT.Org>, TAPR APRS Special Interest Group <aprssig@tapr.org>, TAPR APRS Satellite Special Interest Group <aprssat@lists.tapr.org>  
Message-ID: <LYR842-89194-2000.06.06-18.00.28--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----  
Hash: SHA1

>\* Satellite digipeat QSO's do not count for any score...

CW is three points, voice is one point, packet zero.  
I get the message.

- - -

Are you an ISP? Tired of spam?  
[www.spamwhack.com](http://www.spamwhack.com) A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----  
Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBOT2aiIFlGDz1l6VWEQL6hwCeNQG5xIyNGd2yLVgxP5GxUUK01U8Ao0fI  
etX+uBF92i5QR1cGy03n1wGH  
=csTb  
-----END PGP SIGNATURE-----

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### 334. [aprssig] Re: [amsat-bb] FD2000

From: Steve Bragg <steveb@skymaster.c2-tech.com>  
Date: Tue, 06 Jun 2000 18:09:41 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89197-2000.06.06-18.11.52--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

David VanHorn wrote:

> >\* Satellite digipeat QSO's do not count for any score...  
>  
> CW is three points, voice is one point, packet zero.  
> I get the message.

And we wonder why more hams aren't into digital stuff like APRS?

I can imagine Drew Carey saynng on "Whose Line Is It Anyway?":

"The points don't matter, that's right, just like digital modes to the ARRL FD Committee..."

<grin>

73,

Steve

---

Steve Bragg KA9MVA    ka9mva@qsl.net    ICQ:29816109  
HamHUD APRS Mobile Terminal: [www.qsl.net/ka9mva/hamhud](http://www.qsl.net/ka9mva/hamhud)  
Member, North Texas Microwave Society  
Sec/Treasurer, Owasso Amateur Radio Club [www.qsl.net/oarc](http://www.qsl.net/oarc)  
Find me with APRS! <http://map.findu.com/KA9MVA-6>

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### 335. [aprssig] Re: Questions

From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
Date: Tue, 6 Jun 2000 19:10:14 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-89198-2000.06.06-18.13.22--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Tue, 6 Jun 2000, emick wrote:

> Hate to bother you but I want to register and have a question regarding  
> what the gps & wx ultimeter registrations do.

Back in the early days, only about 2% of APRSdos users actually went  
MOBILE APRS with a GPS. So I kept the registration low for those users  
who only wanted to watch what was going on.. and made the GPS and WX as  
options only for those people who actually used them.

So you only need the GPS or WX number if you are actually going to plug  
your GPS or Home WX station into APRSdos while mobile. As is, it will  
receive ALL GPS positions off-the-air, but will only recognize an  
"attached" GPS if it is registered that way.

> Just getting started have had winaprs for a while and getting ready to  
> test the waters. Really looks as if aprs. dos is more in line with the  
> outdated computers I have. Thanks in advance!

>  
> Charles Emick  
> KB8PXM

>  
>  
> ---

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>  
>

APRSdos REPLY/COMMENT:

Reply mail addr: [wb4apr@amsat.org](mailto:wb4apr@amsat.org)  
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060  
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>  
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>  
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

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### 336. [aprssig] RE: FD 2000

From: Jeff Reinhardt <[jreinh@ix.netcom.com](mailto:jreinh@ix.netcom.com)>  
Date: Tue, 06 Jun 2000 16:55:33 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-89202-2000.06.06-19.03.54--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Folks, read the rules before posting errant info. The Field Day Rules  
are in May QST and I believe they are posted on the ARRL web site.  
Jeff Reinhardt AA6JR

=====  
Field Day Rules published in May 2000 QST:

7.1.1 Phone contacts count one point each  
7.1.1 CW contacts count two points each  
7.1.3 Digital contacts count two points each

7.3.7 Satellite QSO: 100 bonus points for successfully completing at least one QSO via an amateur radio satellite during the Field Day period. Under the "General Rules for All ARRL Contests" (rule 3.7.2) the no-repeater QSO stipulation is waived for satellite QSOs. (there's more)

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### 337. [aprssig] Re: AEA PK-88 help

From: Will Owens <wowens@iximd.com>  
Date: Tue, 06 Jun 2000 20:02:11 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89203-2000.06.06-19.05.47--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Anybody running a PK-88 with Winaprs?

Will Owens  
N3ZLL

Kevin McKay wrote:

> I didn't see a response to this, so I'll give it a whack.  
> I run a PK-88, DosAPRS, on an old x286 machine at my QTH. the initAEA file  
> has worked from day one for me.  
> For field Day, just remember that the PK-88 is a power hog, 1/2Amp at  
> 12Volts.  
> Having bought the '88 used without manuals, would any one be willing to  
> post/copy the command set with breif descriptions? Or point those of use  
> fortunate enough to have these paperweights, to their location?  
>  
> 73 de N7URW, Kevin  
>  
> ----Original Message Follows----  
> From: "Andrew Witham W1SAR" <w1sar@searcher.org>  
>  
> I am presently configuring a Citadel 486, Garmin GP-45, to work with a AEA  
> PK-88 and a Radio Shack HTX-242, to use as a Field Day demo unit.  
>  
> I believe that I have followed all the set-up instructions, and followed  
> advice in trouble.txt, and hope that someone can put me right.  
>  
> Documents say...  
>  
> "TNC-TYPE: There are two basic types of TNC, the TAPR-2 clones and the AEA  
> products. They display received packets differently. APRSdos is written  
> around the TAPR-2 types such as TINY-2, MFJ, Kantronics, etc. All AEA  
> packets are first converted into TAPR format within APRSdos, that is why it  
> needs to know what type of TNC you are using. One CAUTION: The AEA PK80 is  
> a TAPR-2 standard TNC, so if you use the PK80, then do \*not\* answer AEA as  
> your type of TNC..."  
>  
> Is a PK-88 TAPR-2 standard? What TNC option should I select with APRStch?  
>  
> and  
>  
> "AEA PRODUCTS: Since some of the AEA setup commands are different than the  
> standard, you must tell APRS that you are using an AEA so that it will use  
> the commands in InitAEA.TNC. Also, the AEA monitor format is different. In  
> some early models of the PK-12, the monitor function was not correct. If  
> you add the command BBSMSG ON to the InitAEA.TNC file, then the PK-12  
> will emulate the standard TAPR monitoring function and work properly."  
>  
> As the PK-12 superceeded the PK-88, do I need BBSMSG ON in the InitAEA.TNC  
> file (if indeed I need the AEA init file)?  
>  
> I have no manual for the TNC, but have sourced configurations for the  
> cables, so I don't think that there is a problem there. I have serial  
> communications between the PC & the TNC, but I lack the experience to

> recognize if this 'looks right' or not.  
>  
> Any and all suggestions gratefully received.  
>  
> Drew W1SAR  
>  
>  
> \_\_\_\_\_  
> Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>  
>  
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### 338. [aprssig] Palm Maps

From: John W Wilson <[z004391b@bc.seflin.org](mailto:z004391b@bc.seflin.org)>  
Date: Fri, 2 Jun 2000 20:43:13 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapir.org](mailto:aprssig@lists.tapir.org)>  
Message-ID: <[LYR842-89209-2000.06.06-19.26.16--lyris.aprssig#tapir.org@lists.tapir.org](mailto:LYR842-89209-2000.06.06-19.26.16--lyris.aprssig#tapir.org@lists.tapir.org)>  
Rendered body type: text/plain

Does anyone know how I can make maps for the PalmAPRS? Thanks,

John W. Wilson, KN4HX  
[z004391b@bcfreenet.seflin.lib.fl.us](mailto:z004391b@bcfreenet.seflin.lib.fl.us)

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### 339. [aprssig] D700 and Route Tracing

From: "Larry Zanella" <[larry.zanella@attws.com](mailto:larry.zanella@attws.com)>  
Date: Tue, 6 Jun 2000 19:41:59  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapir.org](mailto:aprssig@lists.tapir.org)>  
Message-ID: <[LYR842-89211-2000.06.06-19.44.53--lyris.aprssig#tapir.org@lists.tapir.org](mailto:LYR842-89211-2000.06.06-19.44.53--lyris.aprssig#tapir.org@lists.tapir.org)>  
Rendered body type: text/plain

I have done a lot of driving around with my D700 and Garmin GPS 35 PC. In capturing my position information on my PC with winAPRS 2.4.5, I had set the Autotrack so it would record my movements for later replay. Here is what I found:

1. When I hit r, two or three routes are displayed from my starting location to 3 hugely different destinations, one of them being correct, and two of them going into the waters of Puget Sound, 100's of miles away. It can't be a confusion with anyone else, as I am the only station for miles around my small town, and the routes all distinctly started from my exact location, as I zoomed in extremely close to check this. I tried this many times over 10 or more separate trips. This happens every time, and lots of times there are over half a dozen tracks created, one being completely valid and very accurate, and all of the rest going off to nowhere land.
2. Whenever I hit the arrow keys to move the map around or zoom in and out, etc. the route is lost and I have to go all the way back to the beginning and hit r again and start all over.
3. The tracks are grey in color, as is the map. I tried to change the color of the map with no success.
4. GPS 35 is still apparently reading in knots---the winAPRS 2.4.5 will not convert this stream to MPH, even though I have it set to do so.

Larry Z

---

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### 340. [aprssig] Re: sick idea??

From: Jeff King <jeff@aerodata.net>  
Date: Tue, 06 Jun 2000 21:11:17 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89217-2000.06.06-20.12.16--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Sick idea? Gee, I was expecting to see something purent here!

Now, by smart digi, you mean the program Wes Johnston did with GWBASIC?

One thought I had, is this might be a good port over to the BASIC TIGER. Its got alot more memory then a PIC and of course runs basic, just like Wes's program. Its also MUCH faster then the basic stamp. Now, if I had a need for the smart digi, I'd convert it but I don have a need.

This would answer all your requirements as the Basic Tiger does have a watchdog timer in it. Here is the link:

<http://www.wilke-technology.com/>

-Jeff

George Kammerzell N0ZED wrote:

> you PICers out there , could smothing like smart digi get stuffed into a pic  
> , flea market TCM a radio and a pic..hmmm. We are getting ready to put up  
> some old laptops with one of the smare digi programs , but bothers me is  
> computer with soft power switched if they go down we will have to go up and  
> restart them , if a pic would work hmmm. would a RTC be needed ....ect  
> ....???  
>  
> ---  
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### 341. [aprssig] KCAPRS back on line!

From: Jim Duncan <ku0g@kcaprs.org>  
Date: Tue, 06 Jun 2000 20:49:40 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89222-2000.06.06-20.53.21--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Greeting siggers and siggerettes....

The Kansas City APRS Working Group site is back on line as of 8:45 p.m.  
I've lost a goodly number of files and images. I am trying to resurrect as much as I can from archival copies, but many of these were not archived (ol' dopey me)....

Several pages (especially the Elmers page) are OLD and out of date.  
Please check out Elmers if you are SUPPOSED to be on the list. I will need UPDATED and CURRENT information and I will plug it all in as I receive it!

Thanks for anyone who wishes to do some site surfing and help find broken links, lost graphics, etc...!

--

73 de Jim, KU0G  
Chairman/Coordinator  
Kansas City APRS Working Group, W0APR  
First Alert Storm Team KMBC-TV9  
Mailto:ku0g@kcaprs.org  
Webpage: <http://www.kcaprs.org>

---

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### 342. [aprssig] RE: FD 2000

From: Bob Bruninga <bruninga@nadm.navy.mil>  
Date: Tue, 6 Jun 2000 22:09:49 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89223-2000.06.06-21.12.48--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Tue, 6 Jun 2000, Jeff Reinhardt wrote:

> Folks, read the rules before posting errant info. The Field Day Rules  
> are in May QST and I believe they are posted on the ARRL web site.  
> Jeff Reinhardt AA6JR  
> =====

Sorry Jeff, but I think you miss understand on two counts:

1) My message was about the "AMSAT" rules not the ARRL rules. (NOTE-1)

2) The ARRL has officially said that APRS digital contacts via the SATELLITES do NOT COUNT because the satellite is a digipeater. (NOTE-2)  
We still think they are confused, but the SUBJECT line of the Emails were clearly dealing with SATELLITE contacts which the RULES say count. But AMSAT and an official of the ARRL says dont...

NOTE-1:

-----  
On Tue, 6 Jun 2000, Andy MacAllister wrote:

> We will not be making any changes to the AMSAT FD rules this year.  
> They can be found at <http://www.amsat.org/amsat/activities/amsatfd.html>

\* Satellite digipeat QSO's do not count for any score...  
-----

NOTE-2:

-----  
On Wed, 31 May 2000, Henderson, Dan N1ND wrote:  
Subject: Valid Satellite Credit

> If APRS uses any kind of repeated signal it is not acceptable for QSO  
> credit.  
> Good luck with FD2000.  
> 73  
> Dan Henderson, N1ND  
> ARRL Contest Branch Manager  
>  
> -----Original Message-----  
> From: Doug Ellmore [mailto:naldx@arrl.net]  
> Sent: Wednesday, May 31, 2000 6:51 AM  
> To: n1nd@arrl.org  
> Subject: Valid Satellite Credit  
>  
> Dan, I was referring to a regular FD exchange using APRS.  
> >  
> > "Henderson, Dan N1ND" wrote:  
> > > Hi Doug:  
> > >  
> > > Handling the message via APRS or packet is as valid as using an HF  
> > > traffic net or two meter NTS net. Just keep in mind that the APRS  
> > > QSO itselt won't count for QSO credit.  
> > >  
> > > Good luck with FD2000.  
> > > 73  
> > > Dan Henderson, N1ND  
> > > ARRL Contest Branch Manager

---

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### 343. [aprssig] RE: FD 2000

From: Jeff Reinhardt <jreinh@ix.netcom.com>  
Date: Tue, 06 Jun 2000 19:31:12 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>





### 344. [aprssig] RE: FD 2000

From: "Jeff Brenton" <jeffb@espi.com>  
Date: Wed, 7 Jun 2000 02:38:09 -0000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89233-2000.06.06-21.41.47--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> If APRS uses any kind of repeated signal it is not acceptable for QSO  
> credit.

So, they're disallowing ONLY digital signals that are repeated through a satellite, or ALL signals that are repeated through the satellite? Voice and CW through a satellite are just as "repeated" as packet signals.

Jeff Brenton, Amateur Radio call sign KA9VNV  
<http://espi.com>  
Questionable web page: <http://dididahdahdidit.com>

---

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### 345. [aprssig] AUTO Satellite QSO's

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Tue, 6 Jun 2000 22:43:43 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@tapr.org>  
Message-ID: <LYR842-89235-2000.06.06-21.47.12--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Just for fun for Field Day, I am trying to add a short routine to APRSdos that will automate the hectic QSO process during a Satellite Pass. You only have about 5 minutes so here is what it will do. First, the objective:

1. Put your FD exchange in your POSIT comment
2. For each new station seen:
  - \* Log it as usual
  - \* Add the callsign to a single "QSL" BULLETIN line to REPLACE your previous QSL bulletin. Thus you only have one outgoing BULLETIN active at a time, yet it can be QSL'ing up to 8 contacts.
  - \* If one line fills up, then move to next BULLETIN. The full BULLETIN line decays as usual to lower and lower transmit rates.

EXAMPLE:

After 1st stn BLN1QSL :W3ABC  
after 2nd stn BLN1QSL :W3ABC,W4XYZ  
after 3rd stn BLN1QSL :W3ABC,W4XYZ,W3XYZ,W5HIJ  
etc BLN1QSL :W3ABC,W4XYZ,W3XYZ,W5HIJ,WB4APR,W3STL

Etc. Here the BULLETIN number is the "1" character. By including all the QSL calls in one bulletin, you improve the chances that the other stations copy it while minimizing QRM. Once it is full, then move onto BULLETIN #2. Then the decaying algorithm for APRS will concentrate on the older bulletin less and less, and place priority on the new BLN2QSL bulletin.

and you only have ONE outstanding BULLETIN line for up to 8 QSL's

Quite efficient

de WB4APR, Bob

---

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### 346. [aprssig] RE: FD 2000

From: David VanHorn <dvanhorn@cedar.net>  
Date: Tue, 06 Jun 2000 21:29:52 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89236-2000.06.06-21.47.38--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

>So, they're disallowing ONLY digital signals that are repeated through a  
>satellite, or ALL signals that are repeated through the satellite? Voice and  
>CW through a satellite are just as "repeated" as packet signals.

Can we disallow the ionosphere "repeater" as well? :)

Maybe antennas are just too easy.

(maybe they just don't like packet?)

- - -

Are you an ISP? Tired of spam?

www.spamwhack.com A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----

Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBOT3PWIFlGDz1l6VWEQLAIQCeJ0Lw7ZoGAGsANK0vYH4PrSyL6+AAoNW1

QxfgAVncA7U8oa01kdUM/dQb

=SMRm

-----END PGP SIGNATURE-----

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### 347. [aprssig] Re: AEA PK-88 help

From: Robbie Robertson <[mwrobertson@mediaone.net](mailto:mwrobertson@mediaone.net)>

Date: Tue, 06 Jun 2000 22:09:30 -0500

To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>

Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>

Message-ID: <LYR842-89238-2000.06.06-22.11.20--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

Yes, but at the moment it is hooked onto my Linux

Xastir box...

Robbie

Will Owens wrote:

>

> Anybody running a PK-88 with Winaprs?

>

> Will Owens

> N3ZLL

>

> Kevin McKay wrote:

>

> > I didn't see a response to this, so I'll give it a whack.

> > I run a PK-88, DosAPRS, on an old x286 machine at my QTH. the initAEA file

> > has worked from day one for me.

> > For field Day, just remember that the PK-88 is a power hog, 1/2Amp at

> > 12Volts.

> > Having bought the '88 used without manuals, would any one be willing to

> > post/copy the command set with breif descriptions? Or point those of use

> > fortunate enough to have these paperweights, to their location?

> >

> > 73 de N7URW, Kevin

> >

> > ----Original Message Follows----

> > From: "Andrew Witham W1SAR" <[w1sar@searcher.org](mailto:w1sar@searcher.org)>

> >

> > I am presently configuring a Citadel 486, Garmin GP-45, to work with a AEA

> > PK-88 and a Radio Shack HTX-242, to use as a Field Day demo unit.

> >

> > I believe that I have followed all the set-up instructions, and followed

> > advice in trouble.txt, and hope that someone can put me right.

> >

> > Documents say...

> >

> > "TNC-TYPE: There are two basic types of TNC, the TAPR-2 clones and the AEA

```

> > products. They display received packets differently. APRSdos is written
> > around the TAPR-2 types such as TINY-2, MFJ, Kantronics, etc. All AEA
> > packets are first converted into TAPR format within APRSdos, that is why it
> > needs to know what type of TNC you are using. One CAUTION: The AEA PK80 is
> > a TAPR-2 standard TNC, so if you use the PK80, then do *not* answer AEA as
> > your type of TNC..."
> >
> > Is a PK-88 TAPR-2 standard? What TNC option should I select with APRStch?
> >
> > and
> >
> > "AEA PRODUCTS: Since some of the AEA setup commands are different than the
> > standard, you must tell APRS that you are using an AEA so that it will use
> > the commands in InitAEA.TNC. Also, the AEA monitor format is different. In
> > some early models of the PK-12, the monitor function was not correct. If
> > you add the command BBSMSG5 ON to the InitAEA.TNC file, then the PK-12
> > will emulate the standard TAPR monitoring function and work properly."
> >
> > As the PK-12 superceeded the PK-88, do I need BBSMSG5 ON in the InitAEA.TNC
> > file (if indeed I need the AEA init file)?
> >
> > I have no manual for the TNC, but have sourced configurations for the
> > cables, so I don't think that there is a problem there. I have serial
> > communications between the PC & the TNC, but I lack the experience to
> > recognize if this 'looks right' or not.
> >
> > Any and all suggestions gratefully received.
> >
> > Drew WISAR
> >
> >
> > Get Your Private, Free E-mail from MSN Hotmail at http://www.hotmail.com
> >
> > ---
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> > To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
--
-----
Are we having fun yet?
73 - Robbie - WA9INF
***** --... -- *****

---
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```

### 348. [aprssig] Starting Alaska APRS

```

From: "Kent Petty" <k15t@arrl.net>
Date: Tue, 6 Jun 2000 22:18:41
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-89240-2000.06.06-22.21.38--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi folks. We're finally getting APRS started here in Alaska. Right now,
I've got my tracker station working, and my home station working (still
have to register WinAPRS). The next step is to get a couple digipeaters in
operation. I have at my disposal a few Kantronics 9612s. I've looked high
and low on the web and I'll be darned if I can find any instructions on how
to set these puppies up as APRS digis. I guess for right now we want to
get one set up as a WIDE, and the others as RELAYS. Can anyone PLEASE give
me some precise step by step command instructions so we can get these on
the air?

Many thanks in advance...73,

Kent Petty, KL5T
Alaska Section Manager

---
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```

### 349. [aprssig] FS:TNCs/Citadel computer/2m radio

```

From: Mark Sailer <msailer@buoy.com>
Date: Tue, 06 Jun 2000 23:35:11 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-89243-2000.06.06-22.38.17--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

Here's a list of equipment that is surplus to my needs.

1 - Citadel 486 computer \$100 shipped  
1- Kantronics KPC-3 /manuals/original box/cables \$100 shipped  
1- MJF1270B TNC/manual/wall wart/cables \$80 shipped  
1- MFJ 1270B TNC/2400 baud modem/maual/wallwart/cables \$90 shipped  
1-Alinco DR-1200 Data Radio \$120 shipped

Email me directly if interested  
TNX

--  
====

Mark Sailer, N2JTW msailer@buoy.com  
Lake Grove L.I., NY

---

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---

### 350. [aprssig] APRS station for Sale

From: "James Kennedy" <wh6lr@cedar-rapids.net>  
Date: Tue, 6 Jun 2000 23:18:42 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89249-2000.06.06-23.22.00--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi Siggers!

I have a aprs station for sale, it's a Alinco 2m DR 140T and a MFJ 1270c ( newest fiirmware) complete with cables made, mike for the Radio. boxes and manuals all for \$250.00 or you can vist E-Bay and bid for the 2M Radio and TNC Package! It's going to 130.97 right now have at it Siggers! 73's de Jim WH6LR  
OH i'M NOT GETTING OUT OF APRS just upgrading to HF

---

### 351. [aprssig] RE: FD 2000

From: Jeff King <jeff@aerodata.net>  
Date: Wed, 07 Jun 2000 00:33:54 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89251-2000.06.06-23.34.57--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

David VanHorn wrote:

> (maybe they just don't like packet?)

If it looks like xxxx, if it smells like xxxx, if it tastes(!?) like xxxx,  
it must be xxxx.

-Jeff

---

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### 352. [aprssig] xaprs007

From: Robbie Robertson <mwrobertson@mediaone.net>  
Date: Tue, 06 Jun 2000 23:44:22 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89252-2000.06.06-23.46.23--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi all,

I was on Rutgers/aprs tonight and saw this file  
xaprs007.zip along with xaprs.tar.gz

xaprs007.zip will not unzip with Winzip, and I cannot  
do anthing with it on Linux.

What is this file? Any clues would help and thanks...

Robbie

--  
-----  
Are we having fun yet?  
73 - Robbie - WA9INF  
\*\*\*\*\* --... --... \*\*\*\*\*

---  
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### 353. [aprssig] Re: [amsat-bb] FD2000

From: "Mark A. Foley" <na4v@hom.net>  
Date: Wed, 7 Jun 2000 05:14:52 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "aprs" <aprssig@tapr.org>  
Message-ID: <LYR842-89281-2000.06.07-04.18.27--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I agree...we are supposed to be leaning forward to new technology and processes....  
If all that people want is points...then there are plenty of contests to satisfy their desire. However, we need to promote our hobby and how we are staying on the cutting edge of new technology...let us reward that process....  
(off my soapbox)...and let the flames begin....  
Mark, NA4V  
-----Original Message-----  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Cc: Joel B. Black <jbbblack@mindspring.com>; AMSAT BB <amsat-bb@AMSAT.Org>; TAPR APRS Special Interest Group <aprssig@tapr.org>; TAPR APRS Satellite Special Interest Group <aprssat@lists.tapr.org>  
Date: Tuesday, June 06, 2000 11:07 PM  
Subject: [aprssig] Re: [amsat-bb] FD2000

>On Tue, 6 Jun 2000, Andy MacAllister wrote:  
>  
>> We will not be making any changes to the AMSAT FD rules this year.  
>> They can be found at <http://www.amsat.org/amsat/activities/amsatfd.html>  
>  
>\* Satellite digipeat QSO's do not count for any score...  
>  
>WOHAA? While I understand the basis for this in years past when MIR was  
>the only active DIGIPEATER in space and DIGIPEATING was not desired, but  
>now we have SUNSAT, and THREE 1200 baud PSK satellties with DIGI enabled  
>for APRS (A016, L019, I026) and maybe more, this "rule" seems  
>counterproductive to current digital operations...  
>  
>I do Field Day for fun, not points, but this "rule" seems to be kinda  
>archaic?  
>  
>de WB4APR, Bob  
>  
>  
>  
>  
>---  
>You are currently subscribed to aprssig as: NA4V@HOM.NET  
>To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org  
>  
>  
>

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### 354. [aprssig] Installation of equipment

From: Robert W Burton <kd4ydc@juno.com>  
Date: Wed, 7 Jun 2000 06:40:53 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89285-2000.06.07-05.45.30--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Good Morning Sig,  
I am getting ready to move all my ham equipment (one vhf/uhf voice radio and one packet station) into a 1996 Ford Aerostar. Curious if anyone has

this van and could shed some insight on your installation(s). I have often toyed with the idea of putting in a second battery in my old van, maybe the time to do it now. I have seen an installation of one local APRSer that was wonderful! Not sure if I have the know how or skills to do that though (had some kind of insulation block for the second batt. He also had a full blown computer and monitor!) My packet station is in a plastic box that holds my ADI 146, KPC3, hsp cable, fuse block and acts as a pedestal for my laptop. Not sure if that will be possible now. Not sure if I will mount everything out of the way and put the laptop on some sort of arm or what.

Do you have any pics of your installation on a page somewhere? Boy sure would be nice if we had a file section on this sig to just upload pics and other info for APRS. Mmmmm  
Thanks in advance,  
Robert  
KD4YDC

---

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<http://dl.www.juno.com/get/tagj>.

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---

### 355. [aprssid] Re: How do you compute distance between two points

From: "Victorf" <[vfraenc1@nycap.rr.com](mailto:vfraenc1@nycap.rr.com)>  
Date: Wed, 7 Jun 2000 07:14:32 -0400  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <LYR842-89286-2000.06.07-06.18.36--lyris.aprssid#tapr.org@lists.tapr.org>  
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If you are interested in a DOS program to do this calculation please visit:

<ftp://ftp.wizvax.net/pub/personal/victorf>

and retrieve my DOS Freeware program inverse.zip. If you would like to calculate the lat/long of a place when you know the lat/long of another place and the distance and bearing to the unknown place get direct.zip. Get programs.txt to read about my other cartography oriented programs. Everything is freeware. If you like the programs please let me know. The email address in the program docs is wrog. Use:

[vfraenc1@nycap.rr.com](mailto:vfraenc1@nycap.rr.com)

instead. I'm sorry, the source code for these programs is not available.

Hope this helps

Vic

---

Victor Fraenckel - The Windman [vfraenc1@nycap.rr.com](mailto:vfraenc1@nycap.rr.com)  
Home of the WindReader Electronic Theodolite  
Read the WIND

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### 356. [aprssid] Re: Position rate

From: "Henk de Groot (EMN)" <[Henk.de.Groot@emn.ericsson.se](mailto:Henk.de.Groot@emn.ericsson.se)>  
Date: Wed, 7 Jun 2000 11:08:37 +0200  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <LYR842-89287-2000.06.07-06.53.50--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hello Tony,

> From: [tarnerich@in-situ.com](mailto:tarnerich@in-situ.com) [<mailto:tarnerich@in-situ.com>]  
> There is some truth and some misconception in that statement.  
>  
> A more accurate version would be: To successfully deposit tracking  
> information in such an environment you need to make your

> transmissions from  
> locations in which there is a good RF path to a digipeater.

Well, I don't know if you know Holland, but it is pretty flat, so no hilltops or whatever - nice bicycle country. I tried to deposit messages manually but I could not deduce from the environment when to do it. I successfully received packet seemingly random, without any clue why this spot would be any better than 100 meters further down the road. But that are of course local conditions. Anyway in this environment you can't predict which packets will fail.

> eliminated it might  
> be reasonable to consider designing in a sensitivity to the vertical  
> dimension as well, to have it send beacons at each hilltop as  
> you travel. But

Problem of detecting a hilltop is that you first notice that you were at the top when you go down again. Maybe favorite points for transmission can just be stored in the unit or remembered if you've been there before.

Several things you could do:

- 1) Load predefined points of an area, the problem is how to get these.
- 2) Connect this to your button press method. The first time you mark the spots by pressing the button. When you travel the same road again the unit will know the favorite places
- 3) Use a 1 minute interval on your first trip and remember all the occasions when you received your own packet back. Then the next time the unit will also know these spots.

I see that you came up with the same idea when I read the rest of your contribution...

Another method is to detect successful reception of a packet from a digi, that might indicate that the reverse-path from you to the digi is also 'open'. It relies on traffic on the digi but does not need the storage of good-spot data and also works on your first travel.

> You need to assess whether or not it is critical to receive  
> 100% proof in the  
> digital realm that you were digipeated. The human could  
> always listen to the  
> packet audio, that can give some indication of success. Your

When the digi is busy it always has to transmit something, so a transmission directly following your deposit does not mean it is repeating your packet.

> Also, with a powerful computing device you could even  
> consider a system in  
> which you have PASSALL ON (after all, this is not a  
> digipeater we are talking  
> about, it's a tracker). Then you could use pattern

That would also be possible I think, some fuzzy comparison. It is a pity that there is no indication if the data passed CRC or not. All data received with PASSALL ON is suspicious so better not use it for any other purpose than this.

I think this was a very good contribution from Tony and gives a lot food for thought. The only practical thing is that we can support this in HamHud devices and Laptop implementations, but how to convince Kenwood an Alinco to have this in the commercial equipment too...

Kind regards,

Henk.

--

#####  
The difference between theory and practice in practice is bigger than the difference between theory and practice in theory.

Henk de Groot | Tel: +31 53 4505400 Ext: 5400  
<Henk.de.Groot@emn.ericsson.se> | Ericsson Business Mobile Networks

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### 357. [aprssig] Re: How do you compute distance between two points

From: Gerry Creager N5JXS <gerry@cs.tamu.edu>  
Date: Wed, 07 Jun 2000 06:52:49 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89289-2000.06.07-06.56.24--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Victorf wrote:

>  
> If you are interested in a DOS program to do this calculation please visit:  
>  
>       ftp://ftp.wizvax.net/pub/personal/victorf  
>  
> and retrieve my DOS Freeware program inverse.zip. If you would like to  
> calculate the lat/long of a place when you know the lat/long of another  
> place and the distance and bearing to the unknown place get direct.zip. Get  
> programs.txt to read about my other cartography oriented programs.  
> Everything is freeware. If you like the programs please let me know. The  
> email address in the program docs is wrog. Use:

Works well. Compares favorably with the results found here:

[http://www.ngs.noaa.gov/cgi-bin/Inv\\_Fwd/inverse.prl](http://www.ngs.noaa.gov/cgi-bin/Inv_Fwd/inverse.prl)

This URL points to part of the Geodetic Toolkit on the website of the National Geodetic Survey. While there's a lot of overkill for most on the sig in the Toolkit, it might still be interesting to wander through. The main page for the Geodetic Toolkit can be found here:

[http://www.ngs.noaa.gov/cgi-bin/Inv\\_Fwd/inverse.prl](http://www.ngs.noaa.gov/cgi-bin/Inv_Fwd/inverse.prl)

Sorry for not getting this out sooner, but I've been a little busy settling into a new job, putting GPS on cows again, and getting a new geodetic GPS site or 2 planned and installed. Hoping to be back on the DGPS-over-IP testing in a week or so; that's taken longer than I'd hoped, but I got the new antenna for that and a permanent GPS site up on the building yesterday and now simply need to get things going for power, RS-232, etc.

73, gerry

--

Gerry Creager                   gerry@cs.tamu.edu, gerry@page4.cs.tamu.edu  
Network Engineering                   |Geodesy  
Computer Science Department           |Satellite Geodesy and Control  
Texas A&M University                   |  
979.458.4020

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### 358. [aprssig] Re: Position rate

From: Gerry Creager N5JXS <gerry@cs.tamu.edu>  
Date: Wed, 07 Jun 2000 07:06:49 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89291-2000.06.07-07.17.52--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

"Henk de Groot (EMN)" wrote:

>  
> Hello Tony,  
>  
> > From: tarnerich@in-situ.com [mailto:tarnerich@in-situ.com]  
> > There is some truth and some misconception in that statement.  
> >  
> > A more accurate version would be: To successfully deposit tracking  
> > information in such an environment you need to make your  
> > transmissions from  
> > locations in which there is a good RF path to a digipeater.  
>  
> Well, I don't know if you know Holland, but it is pretty flat, so no  
> hilltops or whatever - nice bicycle country. I tried to deposit



> messages manually but I could not deduce from the environment when to  
> do it. I successfully received packet seemingly random, without any  
> clue why this spot would be any better than 100 meters further down  
> the road. But that are of course local conditions. Anyway in this  
> environment you can't predict which packets will fail.

We are so used to having high power transmitters and receivers, that we ignore some of the subtleties of operation, like multipath fading and shadowing. With widely dispersed digipeaters, incomplete coverage, some using HTs for digipeaters, and a LOT of HT rovers, multipath and shadowing must be at least considered. Good antenna placement, good groundplane counterpoise, and reduction of shadowing on rovers certainly helps. For the fixed sites (home AND digipeater) a good quality antenna in a non-shadowed sone on the antenna support structure, fed with good quality feedline consistent with the site (good RG-58 300 feet long does little for you on a commercial site shared with 3 or 4 250 watt highband commercial stations...) and using appropriate filtering for the site is just good practice.

Also, some sensitivity to the polarization of the antennas on rover and fixed sites sshould be entertained. There's a big penalty in crossed polarization.

> > eliminated it might  
> > be reasonable to consider designing in a sensitivity to the vertical  
> > dimension as well, to have it send beacons at each hilltop as  
> > you travel. But  
>  
> Problem of detecting a hilltop is that you first notice that you were  
> at the top when you go down again. Maybe favorite points for  
> transmission can just be stored in the unit or remembered if you've  
> been there before.

Or, with SA turned off, and assuming that your GPS antenna is good, free from multipath and has good horizon view, use "relative" hilltops... as soon as the tracker notes you're descending from a "relative" hilltop by even a few meters, or you've risen and plateaued for \_n\_ seconds, it says, "OK, transmit..."

> Several things you could do:  
> 1) Load predefined points of an area, the problem is how to get  
> these.

In the US... and most of the world, Digital Elevation Models and Digital Terrain Elevation Data are available from <http://www.nima.mil> Requires some software to do some manipulations, but a web search will find it, and I seem to recall some folks here doing work with DEM and DTED data, too.

> ...  
> Another method is to detect successful reception of a packet  
> from a digi, that might indicate that the reverse-path from you  
> to the digi is also 'open'. It relies on traffic on the digi  
> but does not need the storage of good-spot data and also works  
> on your first travel.

Or not, but it's a reasonable assumption for most.

> ...  
> Kind regards,  
>  
> Henk.  
>  
> --  
> #####  
> The difference between theory and practice in practice is bigger than  
> the difference between theory and practice in theory.

In this discussion, THIS is a profound observation!

73, gerry n5jxs

--

|                             |                                                                                                                                 |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Gerry Creager               | <a href="mailto:gerry@cs.tamu.edu">gerry@cs.tamu.edu</a> , <a href="mailto:gerry@page4.cs.tamu.edu">gerry@page4.cs.tamu.edu</a> |
| Network Engineering         | Geodesy                                                                                                                         |
| Computer Science Department | Satellite Geodesy and Control                                                                                                   |
| Texas A&M University        |                                                                                                                                 |
| 979.458.4020                |                                                                                                                                 |

---

### 359. [aprssig] D7 GPS advice.

From: "Stephen M. King" <frastephen@home.com>  
Date: Wed, 07 Jun 2000 09:06:37 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89298-2000.06.07-08.09.38--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I am looking for advice on which GPS unit to add to a D7A.  
I want one that is portable (run on its own battery power) and standalone.  
What would you suggest?  
Peace & 73,  
Stephen  
KD30G

---

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---

### 360. [aprssig] APRS and ARRL FD2K

From: "Guy Story" <gstory@iphase.com>  
Date: Wed, 7 Jun 2000 08:18:43 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89302-2000.06.07-08.21.55--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I have the following comments to make concerning FD2K and the ARRL's rules. The original thread was concerning the AMSAT rules, questions concerning the ARRL rules have been raised again. This is the third year in a row that this issue has arisen

> "Henderson, Dan N1ND" wrote:  
> > > > Hi Doug:  
> >  
> > Handling the message via APRS or packet is as valid as using an HF  
> > traffic net or two meter NTS net. Just keep in mind that the APRS  
> > QSO itself won't count for QSO credit.  
> > >  
> > Good luck with FD2000.  
> > 73  
> > Dan Henderson, N1ND  
> > ARRL Contest Branch Manager

I have gone over the ARRL's General Rules for All ARRL Contests, including the VHF and HF segments.

Point number 1.

In the General Rules section, paragraph 3.7, the following is stated,

3.7 Contacts made through repeaters, digipeaters, or gateways  
are not permitted.

3.7.1 This applies to all forms of active relays  
or repeaters.

3.7.2 Satellite contacts, where allowed, are not  
subject to this rule.

The first paragraph clearly states that digipeaters are not allowed. I personally do not agree with the ARRL's standing on this.

Point number 2.

3.8 The use of non-Amateur Radio means of communication (for example,  
Internet or telephone) to solicit a contact (or contacts)  
during the contest period is not permitted.

This paragraph clearly removes the ability to use IGATES, even if the contacts are made via RF links on both sides. Again, I do not agree with the ARRL on this point.

What I have not seen posted though is this:

7.3.10. 100 bonus points for setting up a demonstration of a

non-traditional mode  
of amateur radio communications. This includes modes such as APRS,  
ATV,  
and SSTV. This bonus is not available for demonstration of a mode  
for  
which regular QSO credit is available (such as packet, PSK31, or  
other  
digital modes.)

You can get bonus points for having certain modes there. My only argument  
is that the examples  
are not considered a traditional modes. IMHO, this needs to be changed.

The ARRL's standpoint on the usage of a repeating system any form is clear.  
But, in my  
opinion, this is not realistic of what may be implemented in the event of a  
real disaster.  
For those that have been in the position of helping out after a major  
disaster, repeaters,  
relays, in either digital, voice repeater or relays on HF have been used and  
will continue  
to be used. When Amateur Radio is used in this manner it is a large network  
of hams that  
handle the traffic. Not one single person or manner.

I am not going to argue if the ARRL viewpoint is outdated or not. That is  
not the issue.  
For those that want to make statements otherwise, all I have to say is that  
those comments  
DO NOT help when presenting the case to the ARRL or the FCC for that matter.  
If you want  
to change the rules, then well worded, constructive comments do help. It is  
a bit late to  
be petitioning for changes to the rules for FD2K. The time to make comments  
was after the  
1999 FD event. Many of us sent comments to the ARRL last year in the hopes  
of changing  
the rules. Unfortunately this did not happen for FD2K. If you want to help  
change the  
rules, contact your ARRL Field manager or send comments to the ARRL. If  
enough people  
voice their opinions in a constructive manner, change can happen. It will  
not happen if  
you just post comments to the SIG or newsgroups.

Packet usage in any form is a network. The network has the ability to use  
the internet,  
HF, VHF, and up. In the event of a disaster, any form of relaying messaging  
will be used.  
I can not see that hams would say in a disaster that it has to be RF or only  
use one  
specific mode. All aspects of Amateur Radio are tools that we use. IMHO,  
limiting  
the usage of these tools creates problems. The usage of ALL tools in field  
day should  
be encouraged. The more usage the tools see, the better we get at using  
them when  
the time comes to use them. Local phone access may get knocked out, but  
that does not  
mean that a station outside the disaster area can not use what he has at his  
disposal.  
When a message is sent via the NTS network, it can see routing on multiple  
modes before it  
reaches the final destination.

Guy Story, KC5G0I  
Compliance Technician  
Interphase Corporation  
Dallas Texas  
phone: 214.654.5161  
fax: 214.654.5406

---

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---

### 361. [aprssig] Re: D7 GPS advice.

From: "Joel Harrington" <n7lf@earthlink.net>  
Date: Wed, 7 Jun 2000 06:20:08 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "Stephen M. King" <frastephen@home.com>  
Message-ID: <LYR842-89303-2000.06.07-08.23.12--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

6.6.00

Check out a Garmin III+. It has built in maps and displays other APRS "stations" as waypoints. Really cool.

<http://www.garmin.com/products/gpsIIp/index.html>

73,

Joel - N7LF  
Corbett, OR  
----- Original Message -----  
From: "Stephen M. King" <frastephen@home.com>  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Sent: Wednesday, June 07, 2000 6:06 AM  
Subject: [aprssig] D7 GPS advice.

> I am looking for advice on which GPS unit to add to a D7A.  
> I want one that is portable (run on its own battery power) and standalone.  
> What would you suggest?  
> Peace & 73,  
> Stephen  
> KD3OG  
>  
>  
> ---  
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>  
>

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---

## 362. [aprssig] APRS support of the 2000 HP Women's Challenge Bicycle race

From: Doug Rich <doug@the-one.com>  
Date: Wed, 07 Jun 2000 08:09:28 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89309-2000.06.07-09.12.57--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

This year's Women's Challenge race will run from June 8 through June 18. It will have eleven stages, one each day, and we will support at least 8 of those stages. This is the fourth year to provide Amateur Radio support. This year we will use APRS with links to our Boise, Idaho Igate. We have four positions that travel with the race: one in the caravan, one at the finish line, and two relays. Weather permitting, some stages will also have air support, an airborne relay or two. We have difficult terrain to cover, high Idaho MOUNTAINS with NO commercial rf coverage including cell phones and even police and emergency radios. We strive for 100% coverage for communications with the caravan of vehicles that accompanies the bicycle racers.

Most of the race (largest women's bicycle and largest purse in the world) will be ported to the internet and can be viewed with standard APRS software plus [findu.com](http://findu.com) and [aprs.net](http://aprs.net). The vehicle in the race with APRS will have the tactical call of pelatn. You could use <http://map.fundu.com/pelatn>.

The schedule is (all times MDT):

#1 Birds of Prey to Idaho City - Thursday, June 8, 11am, 3:05 hours, 9.5 miles  
#2 Lowman to Stanley - Friday, June 9, 11am, 2:38 hours, 58.5 miles  
#4 Rupert to Pomerelle - Sunday, June 11, 1pm, ~3 hours, 56.4 miles  
#6 Burley to Buhl - June 13, 10:30 am, 3:53 hours, 84.2 miles  
#7 Twin Falls to Glenns Ferry - Wednesday, June 14, 11am, 3:15 hours, 76.7 miles  
#8 Letha to Firebird Raceway - Thursday, June 15, 12pm, ~4 hours, 79.4 miles  
#9 Mountain Home to Mountain Home AFB - Friday, June 16, 12 pm, ~3.5 hours, 71.5 miles  
#10 Middleton to Hyde Park, Sunday, June 18, 11am, 2:08 hours, 50.6 miles

Doug KD6GCL also kd6gcl@arrl.net

---

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---

### 363. [aprssig] RE: D7 GPS advice.

From: Samuel Barker <srbarke@chgw.com>  
Date: Wed, 7 Jun 2000 08:55:48 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89317-2000.06.07-10.00.37--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I use a Garmin Etrex with my D7 right now, and it works very well. Small package, very light, and runs quite a while on 2 AA batteries. Plus it's under \$100, which is a bonus.

The downside is the cost of the data cable for that unit, although a friend of mine successfully made a connector for the Etrex, so I know it can be done.

Samuel, W7YYY

-----Original Message-----

From: bounce-aprssig-17117@lists.tapr.org  
[mailto:bounce-aprssig-17117@lists.tapr.org] On Behalf Of Stephen M. King  
Sent: Wednesday, June 07, 2000 7:07 AM  
To: TAPR APRS Special Interest Group  
Subject: [aprssig] D7 GPS advice.

I am looking for advice on which GPS unit to add to a D7A.  
I want one that is portable (run on its own battery power) and standalone.  
What would you suggest?  
Peace & 73,  
Stephen  
KD30G

---

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### 364. [aprssig] RE: D7 GPS advice.

From: Samuel Barker <srbarke@chgw.com>  
Date: Wed, 7 Jun 2000 08:57:39 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89318-2000.06.07-10.02.25--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Oops, I forgot to mention that the Etrex does not support waypoint upload from the radio. That is a factor to consider as well.

Samuel, W7YYY

-----Original Message-----

From: bounce-aprssig-17117@lists.tapr.org  
[mailto:bounce-aprssig-17117@lists.tapr.org] On Behalf Of Stephen M. King  
Sent: Wednesday, June 07, 2000 7:07 AM  
To: TAPR APRS Special Interest Group

Subject: [aprssig] D7 GPS advice.

I am looking for advice on which GPS unit to add to a D7A.  
I want one that is portable (run on its own battery power) and standalone.  
What would you suggest?  
Peace & 73,  
Stephen  
KD3OG

---

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### 365. [aprssig] Help with 2port setup

From: "Carl Wheeler" <ke6foa@elite.net>  
Date: Wed, 7 Jun 2000 09:46:55 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89360-2000.06.07-11.46.14--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Help

I am setting up two radios and two TNC's one HF and one VHF the TNC's are both AEA vhf is on PK88 and HF on PK-232mbx they both run fine but how do you set the unproto for the HF...? I tried using ALT path in the position window but the HF transmits the vhf path, I also set the path in the terminal window and it worked fine for a while but when I came back out in the morning it was set back to the vhf path.I must be doing something wrong..!

HELP

Carl KE6FOA

---

### 366. [aprssig] Re: sick idea??

From: "George Kammerzell N0ZED" <n0zed@rmaprs.org>  
Date: Wed, 7 Jun 2000 10:43:09 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89361-2000.06.07-11.49.32--lyris.aprssig#tapr.org@lists.tapr.org>  
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The reasoning for me is cost , with the tiger and even a hamfest TNC cost is closing in on a kpc3+ and using a PIC it would be looking at \$15 to 20 and it could be all shoved into a DB25 shell or some other small dongle. Again it was just a brain f\_ \_rt sitting here getting ready for a trip up to 12,000 ft + to a site that is a bear to get to in the summer and via helo the rest of the year. I want the site because it will cover I70 from Loveland pass down into Denver. I think I will kpc3+ this site but there other sites we want to digi from and the thought of a lap top that would need the power button pushed bothers me

----- Original Message -----

From: Jeff King <jeff@aerodata.net>  
To: George Kammerzell N0ZED <n0zed@rmaprs.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Sent: Tuesday, June 06, 2000 7:11 PM  
Subject: Re: [aprssig] sick idea??

```

> Sick idea? Gee, I was expecting to see something purent here!
>
> Now, by smart digi, you mean the program Wes Johnston did with GWBASIC?
>
> One thought I had, is this might be a good port over to the BASIC TIGER.
Its
> got alot more memory then a PIC and of course runs basic, just like Wes's
> program. Its also MUCH faster then the basic stamp. Now, if I had a need
for
> the smart digi, I'd convert it but I don have a need.
>
> This would answer all your requiremets as the Basic Tiger does have a
watchdog
> timer in it. Here is the link:
>
> http://www.wilke-technology.com/
>
>
> -Jeff
>
>
>
> George Kammerzell N0ZED wrote:
>
> > you PICers out there , could smothing like smart digi get stuffed into a
pic
> > , flea market TCM a radio and a pic..hmmm. We are getting ready to put
up
> > some old laptops with one of the smare digi programs , but bothers me is
> > computer with soft power switched if they go down we will have to go up
and
> > restart them , if a pic would work hmmm. would a RTC be needed ....ect
> > ....???
> >
> > ---
> > You are currently subscribed to aprssig as: jeff@aerodata.net
> > To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
>
>

```

```

---
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```

### 367. [aprssig] Re: sick idea??

```

From: Jeff King <jeff@aerodata.net>
Date: Wed, 07 Jun 2000 14:22:18 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Message-ID: <LYR842-89386-2000.06.07-13.23.24--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

OK, I understand.

I always equate labor to cost, and clearly porting the code would be the most expensive thing. Since the Basic Tiger can take basic (although I'm sure it would need alot of work) that would have been the most cost effective way to do it.

Also, remember, a KPC3+ can't do what you want.

The PIC is poorly suited to any kind of data relay application. It simply doesn't have enough RAM.... but, a few have gotten around this either by adding static ram or the RAMTRON FRAM type part. Mike Berg has written a digipeater program for the PIC-E using this part. You can find more info at: <http://www.tapr.org/tapr/html/Fpice.html> and I have also attached part of his readme.

Good luck

Jeff

-----

The two modes of operation are selected by SW1 on the front panel. Switch left is digipeater mode. The unit will digi valid packets with an unused WIDE in it's path. The data in my\_call\_sign will be inserted in the outgoing packet, replacing the WIDE in the path data.





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### 368. [aprssig] Re: Kenwood D700 Interface to Garmin GPSMAP 295

From: John W Wilson <z004391b@bc.seflin.org>  
Date: Wed, 7 Jun 2000 14:37:26 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>,  
aprssig@lists.tapr.org  
Message-ID: <LYR842-89390-2000.06.07-13.40.26--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I have played with the color version and the screen update is rather slow. With a medium busy network, each time the screen updates (erases to re-draw) the screen is not useable because it is blank and will be blank for most of the time. If I had a Street Pilot version I would disable the screen updates from the TNC anyway.

John W. Wilson, KN4HX  
z004391b@bcfreenet.seflin.lib.fl.us

On Sun, 4 Jun 2000, Keith Sproul wrote:

>  
> >  
> >I have also heard that the Garmin GPS III Plus is compatible with the  
> >Kenwood D700 insofar as waypoint INPUT data, but that many of the Garmins  
> >are NOT compatible, such as the Street Pilot, 295 and several other Garmins  
> >relative to INPUT data.  
>  
>  
> The Garmin GPS III+ accepts the Waypoint uploads. The Street Pilot  
> and the Color Street Pilot do NOT accept the waypoint upload data.  
>  
>  
> >BTW, I have tripple checked the cable between the Kenwood and Garmin 295 by  
> >toning it out, and it tests good. I have set the "Interface" on the Garmin  
> >295 for NMEA OUTPUT (which the Garmin manual describes as NMEA IN/OUT), and  
> >I have it set at 4800 baud. I have the Kenwood set for GPS ON, with NMEA  
> >type, and I have the waypoint output capability enabled in the Kenwood, and  
> >I specified up to 9 digits (maximum) for NMEA waypoint (eg, call sign  
> >info).  
> >  
> >Is this a Buyer Beware situation?  
>  
>  
> Yes, this is a buyer-beware situation.  
>  
>  
> What we need is for MANY people to call Garmin and ask for that  
> feature to be in the Street Pilot and Color Street Pilot, and other  
> units. If enough people ask for it, they may put it in.  
>  
> The GOOD news is their software upgrade policy. They put the  
> upgrades on their web site, you download the program and upload your  
> Garmin from your computer.  
>  
> THEREFORE, if they get enough demand for it and decide to do it, all  
> you would have to do is upgrade the software in your unit.  
>  
>  
>  
> Keith Sproul  
>  
> Keith Sproul 732 445-3695 Office  
> Student Housing Network Coordinator 732 445-2968 Fax  
> mailto:ksproul@rci.rutgers.edu 732 821-4828 Home  
> http://dorm.rutgers.edu/~ksproul/ WU2Z  
>  
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### 369. [aprssig] APRSD info

From: "Thomas M. Schaefer" <toms@inconnect.com>  
Date: Wed, 7 Jun 2000 12:53:05 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89392-2000.06.07-13.51.34--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Where is the proper place to ask users of aprsd some questions?

I want to find out if the weather service messages can be sent to RF if I have SLCNWS in the msg2rf list. They are not formatted APRS messages, per se, so I just want to check.

Thanks,

Tom

---

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---

### 370. [aprssig] Re: [amsat-bb] Going Digital... Ham Radio?

From: Richard Parry <rparry@qualcomm.com>  
Date: Wed, 07 Jun 2000 11:48:42 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: aprssig@lists.tapr.org  
Message-ID: <LYR842-89393-2000.06.07-13.51.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Sam,

I have been thinking about this for the past few hours (I have nothing better to do hi hi). A few years ago I become very interested in satellite communication. When I went to the web, I found tons of information, it was overwhelming, I didn't know where to start. Although I feel comfortable with satellite communication now, what I really needed back then was an "elmer". You can have all the information you need, but having someone that has experience can save you a great deal of work and point you in the right direction.

I think this is true for anything: ham radio, astronomy, stamp collecting, model railroading, carpentry, etc. That is why people go to school. Anyone can pick up the book for the class, but going to the classroom and interacting with the instructor and fellow students is where a lot of the learning process occurs.

In summary, I still disagree with the original email comment that he could not find anything on the web about packet radio. I humbly submit it is all there, but he didn't recognize it. He needs an elmer, we all do when learning something new.

At 01:34 PM 6/7/00 -0500, you wrote:

>I understand the frustration in trying to find information about  
>operating digital. I feel it, and I believe I have a decent  
>understanding of searching and the web.  
>  
>Knowing where to look and what to look for is such a big part of a  
>successful search.  
>  
>Forget the part about the flame.  
>  
>If you have information about finding the information I, for one, would  
>love for you to share it.  
>  
>Thank you for responding,  
>  
>73,  
>  
>Sam  
>KA5QYU

Rich Parry, W9IF

---

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---

### 371. [aprssig] map.findu.com

From: "David W. Barrow III" <n9unr@execpc.com>  
Date: Wed, 07 Jun 2000 11:22:52 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89409-2000.06.07-15.20.16--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Is there a way to replay a track on Findu.com?

All I get when I log into it is a very stale position report.

Dave

--

Sincerely,

David W. Barrow III, d/b/a Stonewall Computer Center  
Amateur Radio License - N9UNR  
email address: [n9unr@execpc.com](mailto:n9unr@execpc.com) - Web Page:  
<http://www.execpc.com/~n9unr/>

"The only thing that good men must do  
- for evil to prevail  
- is nothing"

Edmund Burke

[Attachment: n9unr.vcf; text/x-vcard; 326 bytes]

---

### 372. [aprssig] Subject lines on messages

From: "David W. Barrow III" <n9unr@execpc.com>  
Date: Wed, 07 Jun 2000 11:28:05 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89410-2000.06.07-15.20.37--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I am a new subscriber.

I have been watching and finding that when I read the text of a message it frequently has no relationship to the subject line. I realize that it is very easy to find a message from good ol' Al (or Bob, or Jim) and, instead of creating a new message, just hit the reply button.

If you save the message for later review, which \*I\* frequently do, I am going to have to read through a lot of unrelated information to get to the crux of the subject being researched.

Thanks,  
Dave

--

Sincerely,

David W. Barrow III, d/b/a Stonewall Computer Center  
Amateur Radio License - N9UNR  
email address: [n9unr@execpc.com](mailto:n9unr@execpc.com) - Web Page:  
<http://www.execpc.com/~n9unr/>

"The only thing that good men must do  
- for evil to prevail  
- is nothing"

Edmund Burke

[Attachment: n9unr.vcf; text/x-vcard; 326 bytes]

---

### 373. [aprssig] WinCE terminal program

From: "BobD" <BobD@virtualconst.com>  
Date: Wed, 7 Jun 2000 16:29:30 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89412-2000.06.07-15.31.11--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Anyone found a simple terminal program for WinCE devices that can be used to setup/communicate with TNCs ?

---

You are currently subscribed to aprssig as: [lyris.aprssig@tapr.org](mailto:lyris.aprssig@tapr.org)

---

### 374. [aprssid] Re: Installation of equipment (2nd car battery)

From: "Rich" <n0rul@kscable.com>  
Date: Wed, 7 Jun 2000 15:53:07 -0500  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-89415-2000.06.07-15.56.16--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

KD4YDC & the group,

You didn't mention where you wanted to mount the second battery but sometimes space is difficult to find under the hood. If you are considering installation of a second battery then consider what I found last year. Everyone I checked with said to mount it under the hood away from the passenger compartment to reduce the risk of battery acid spraying onto passengers during an accident along with a list of fire and other safety concerns cited by almost everyone I talked to. NASCAR folks suggest any battery box placed within the passenger compartment of a vehicle be completely sealed of 1/4 inch thick aluminum and firmly mounted. Metal battery boxes that meet the NASCAR regs can be ordered from auto part stores but appear expensive for what they are.

I wanted easy access to my second battery and was concerned about not venting such battery so I opted to install a smaller than desired second battery into available space under the hood of my sedan using an isolation wiring harness that is built for many different car models which Pepboys or your local auto store sells.

Not sure how much space is under the hood of your Aerostar- but size a deep cycle marine battery to fit some empty open space under your hood and use an isolation kit from the auto store to connect it to your alternator. Good luck.

73 de Rich, n0rul  
mailto:n0rul@kscable.com

----- Original Message -----

Subject: [aprssid] Installation of equipment

...

> I am getting ready to move all my ham equipment (one vhf/uhf voice radio  
> and one packet station) into a 1996 Ford Aerostar. Curious if anyone has  
> this van and could shed some insight on your installation(s). I have  
> often toyed with the idea of putting in a second battery in my old van,  
> maybe the time to do it now. I have seen an installation of one local  
> APRSer that was wonderful! Not sure if I have the know how or skills to  
> do that though (had some kind of insulation block for the second batt.  
...

---

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---

### 375. [aprssid] Cheap Ethernet Interface

From: "Sadowski, Allan" <allan.sadowski@ncshp.org>  
Date: Wed, 7 Jun 2000 17:30:32 -0400  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-89417-2000.06.07-16.29.54--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

FYI to those on the SIG who play with this kind of stuff....

[http://www.rabbitsemiconductor.com/tcpip\\_devkit.html](http://www.rabbitsemiconductor.com/tcpip_devkit.html)

Looks interesting..

ALOHA  
AH6LS

---

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---

### 376. [aprssid] Re: map.findu.com

From: "Thomas M. Schaefer" <toms@inconnect.com>  
Date: Wed, 7 Jun 2000 15:31:05 -0600  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-89418-2000.06.07-16.33.10--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

It is possible to pull the historical data (with the properly develop CGI), but the problem I have been thinking of is how to produce the MAP. I have thought about this because I want to do the same thing. My only thought is to get the Street Atlas formats from Brent (please!), and create a Street Atlas file that can be downloaded. APR5PLUS actually does this with its own internal data).

So, if you can think of a way you would display the historical data, please let me know what you come up with. I would gladly create the CGI app to get the data and create the Street Atlas file on the fly -- but that is the best idea I currently have.

Tom NY4I  
----- Original Message -----  
From: "David W. Barrow III" <n9unr@execpc.com>  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Sent: Wednesday, June 07, 2000 10:22 AM  
Subject: [aprssig] map.findu.com

> Is there a way to replay a track on Findu.com?  
>  
> All I get when I log into it is a very stale position report.  
>  
> Dave  
> --  
> Sincerely,  
> David W. Barrow III, d/b/a Stonewall Computer Center  
> Amateur Radio License - N9UNR  
> email address: n9unr@execpc.com - Web Page:  
> http://www.execpc.com/~n9unr/  
> "The only thing that good men must do  
> - for evil to prevail  
> - is nothing"  
> Edmund Burke

---  
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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

---

### 377. [aprssig] Re: Installation of equipment (2nd car battery)

From: Ralph Fowler <rwf@bsrg.org>  
Date: Wed, 07 Jun 2000 17:37:44 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: aprssig@tapr.org  
Message-ID: <LYR842-89420-2000.06.07-16.41.22--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Don't eliminate the possibility of a garden tractor type battery under there either.

"Rich" <n0rul@kscable.com> wrote:

> Not sure how much space is under the hood of your Aerostar- but size a  
> deep cycle marine battery to fit some empty open space under your hood and  
> use an isolation kit from the auto store to connect it to your alternator.  
> Good luck.

---  
You are currently subscribed to aprssig as: lyris.aprssig@tapr.org  
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---

### 378. [aprssig] Re: Installation of equipment (2nd car battery)

From: Powerwerx <kjm@powerwerx.com>  
Date: Wed, 07 Jun 2000 14:41:32 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89421-2000.06.07-16.48.42--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Batteries:

Another product that you should check out is the Optima Battery:

<http://www.optimabatteries.com/main.htm>

These batteries are unique as they do not contain acid.

The Optima is a sealed, zero-maintenance battery that combines proven lead-acid electrochemistry with advanced Spiralcell Technology to create the Best Batteries in the World! (From there web site!)

They are getting more popular now as they are setting up retail store. A lot of Off-roaders, marine racers use these as they don't leak when you flip over.

I have been thinking of installing one of these in my Expedition.

73, ken, KM6YH

----- Original Message -----

From: "Rich" <n0rul@kscable.com>  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Sent: Wednesday, June 07, 2000 1:53 PM  
Subject: [aprssid] Re: Installation of equipment (2nd car battery)

KD4YDC & the group,

You didn't mention where you wanted to mount the second battery but sometimes space is difficult to find under the hood. If you are considering installation of a second battery then consider what I found last year. Everyone I checked with said to mount it under the hood away from the passenger compartment to reduce the risk of battery acid spraying onto passengers during an accident along with a list of fire and other safety concerns cited by almost everyone I talked to. NASCAR folks suggest any battery box placed within the passenger compartment of a vehicle be completely sealed of 1/4 inch thick aluminum and firmly mounted. Metal battery boxes that meet the NASCAR regs can be ordered from auto part stores but appear expensive for what they are.

I wanted easy access to my second battery and was concerned about not venting such battery so I opted to install a smaller than desired second battery into available space under the hood of my sedan using an isolation wiring harness that is built for many different car models which Pepboys or your local auto store sells.

Not sure how much space is under the hood of your Aerostar- but size a deep cycle marine battery to fit some empty open space under your hood and use an isolation kit from the auto store to connect it to your alternator. Good luck.

73 de Rich, n0rul  
mailto:n0rul@kscable.com

----- Original Message -----

Subject: [aprssid] Installation of equipment

...

> I am getting ready to move all my ham equipment (one vhf/uhf voice radio  
> and one packet station) into a 1996 Ford Aerostar. Curious if anyone has  
> this van and could shed some insight on your installation(s). I have  
> often toyed with the idea of putting in a second battery in my old van,  
> maybe the time to do it now. I have seen an installation of one local  
> APRSer that was wonderful! Not sure if I have the know how or skills to  
> do that though (had some kind of insulation block for the second batt.

...

---

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---

### 379. [aprssid] Re: Going Digital... Ham Radio?

From: Doug McFadden <kc7imr@orednet.org>  
Date: Wed, 7 Jun 2000 14:53:11 -0700 (PDT)  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-89425-2000.06.07-17.02.47--lyris.aprssid@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Tue, 6 Jun 2000, Bob Bruninga wrote:

> Date: Tue, 6 Jun 2000 18:28:55 -0400 (EDT)  
> From: Bob Bruninga <bruninga@nadn.navy.mil>  
> To: TAPR APRS Special Interest Group <aprssid@lists.tapr.org>

> Subject: [aprssig] Going Digital... Ham Radio?

>

> Packet Radio Affectionados,

>

> We have had packet radio for 22 years and yet we are seeing a decline

> of digital operations on HAM radio (with some exceptions) at the same time

> that we are seeing an Explosion of Wireless digital applications in the

> consumer market.

>

> We are not doing a good job of promoting nor explaining what digital

> is all about. The following message I received says it all...

>

> > 26 May, 2000

> > From: [not published, but with permission]

> > Bob,

> >

> > I really enjoyed your Op-Ed published in June's QST "Going Digital".

> > I'm one of those hams who knows nothing about TNCs and how to use them.

> > I've been searching the Internet and asking around and have yet to find

> > a comprehensive source for information on it. All I want to do is

> > connect my computer to my HT and connect to other hams doing the same.

> >

> > The lack of information seems to be pervasive. I'm a member of a newly

> > formed club of hams working at Microsoft in Redmond, WA and when I

> > suggested that a monthly meeting be dedicated to a demonstration of

> > packet radio, we found that nobody in our 80 member club had either the

> > equipment or the knowledge to present the topic....

> > Sincerely

> > [name on file]

>

> If HAMS at Microsoft are not familiar with Packet Radio, then it is easy

> to see why we are where we are today with amateur packet radio... With

> all the world going digital and Now that Kenwood and Alinco are making

> off-the-shelf 9600 baud systems, AMATEUR PACKET RADIO IS ONLY BEGINNING!

> Lets reach out....

>

> de WB4APR, Bob

>

You seem pretty optomistic about packet radio? I'm sorry, I don't see it

that way. Running APRS & FBB at 9600 baud isn't going to get it I'm

afraid. What else is there?

On the other hand, the software and the info is already out there to do

much, much more. Have you talked into your sound card to your buddie's

sound card via the internet? had a conversation that way? Think you

could do that with packet radio? Sure you could, get the data rate up,

make your kiss tnc a "network" device and the sky is the limit as to what

you can do.

If you're serious about "new beginnings" then it's time to get off the

pot, quit waiting for Microsoft.

73 de Doug  
KC7IMR

Trying to establish voice contact ... please yell into your keyboard.

-----

kc7imr@orednet.org                      Linux, for the GNU generation!

---

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### 380. [aprssig] Re: Going Digital... Ham Radio?

From: Earl Needham <kd5xb@amsat.org>  
Date: Wed, 07 Jun 2000 16:08:22 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89428-2000.06.07-17.12.06--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 02:53 PM 6/7/00 -0700, Doug McFadden blasted the following out into the

ether:

><snip>

>On the other hand, the software and the info is already out there to do

>much, much more. Have you talked into your sound card to your buddie's

>sound card via the internet? had a conversation that way? Think you

>could do that with packet radio? Sure you could, get the data rate up,

>make your kiss tnc a "network" device and the sky is the limit as to what  
>you can do.

Know what \*I\* would like to see?

I'd like to see a way to speak into a microphone, have the result  
sent via a TNC (or similar), through digis, just like regular packet,  
EXCEPT THAT THE AUDIO COULD BE UNDERSTOOD BY HUMAN EARS!

In other words, I speak into my "convertor", the signal goes  
through MELROZ, FORT, GALPK, and whatever other digis, all the way to say,  
Albuquerque, and the result can be understood with no computer, no TNC,  
nothing except a speaker and a person listening. At each digi, no less.

7 3  
Earl

---

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---

### 381. [aprssig] KPC3+ Radio Port

From: "Brian B. Riley" <brianbr@macconnect.com>  
Date: Wed, 7 Jun 2000 18:13:18 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89429-2000.06.07-17.15.57--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I seem to have misplaced my manual. Can someone give me the pinouts  
for the DB9 female on the back of the KPC-3+ that is the radio and GPS  
port connection (I know that 6 is ground and 2 is the GPSPort data so  
I guess anyone with pinouts for the KPC3 would be equally helpful)  
Thanks ...

--

Brian B. Riley, N1BQ (ex-KA2BQE)  
<<http://www.wulfdcn.org>>

---

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

---

### 382. [aprssig] Re: Going Digital... Ham Radio?

From: Rich Mulvey <mulveyr@iname.com>  
Date: Wed, 07 Jun 2000 18:12:13 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89430-2000.06.07-17.18.52--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 07-Jun-00 Earl Needham wrote:

> Know what \*I\* would like to see?  
>  
> I'd like to see a way to speak into a microphone, have the result  
> sent via a TNC (or similar), through digis, just like regular packet,  
> EXCEPT THAT THE AUDIO COULD BE UNDERSTOOD BY HUMAN EARS!  
>  
> In other words, I speak into my "convertor", the signal goes  
> through MELROZ, FORT, GALPK, and whatever other digis, all the way to say,  
> Albuquerque, and the result can be understood with no computer, no TNC,  
> nothing except a speaker and a person listening. At each digi, no less.

Well, you've essentially just described linked repeater systems, which have  
been around for years. :-) What you suggest is the added value of digitizing  
the audio - especially considering the difficulty of dealing with the latency  
delays inherent in the system?

- Rich

---

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### 383. [aprssig] AFilter 1.16

From: Bill Diaz <billdiaz@megsinet.net>  
Date: Wed, 7 Jun 2000 17:43:22 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89435-2000.06.07-17.46.38--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

AFilter 1.16 is available for download at  
<ftp://ftp.billdiaz.dynip.com/outgoing/> Bandwidth is limited, and the files are  
only available when I am on line.

You can also try Tate's site at <http://www.cyberhighway.net/~tateb/> if my  
site is not available.

Bill KC9XG

---

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---

### 384. [aprssig] Re: [amsat-bb] Going Digital... Ham Radio?

From: Alan B Schulman <n4lbi@webaccess.net>  
Date: Wed, 07 Jun 2000 17:01:43 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89440-2000.06.07-18.04.58--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Folks:

Let me throw up my ideas about this as a new guy on the block in the  
hope that perhaps my perspective is helpful.

Quick background: I've been a ham on and off for ~40 years and have  
been writing code for >30 years so none of this stuff should be alien  
to me.

I've been subscribing to this list for a couple of weeks. Randomly  
choosing e-mails I made an inventory of names that seemed to be  
programs:

- AFilter
- AGWPE
- APRSD
- aprsdigi
- APRSDOS
- APRSServ
- APRS+SA aka APRS+ (?)
- DIGI\_NED
- UIView aka UI\_View (?)
- UIDigi
- WinPack
- WinAPRS
- X-APRS

The cases are copied and the list is certainly not exhaustive. For  
most of these items there are web references. From a mail from Bob  
Bruninga I learned that the APRSDOS read\_me files should be read.  
Once I know that I can follow thru. Until he mentioned that in  
this SIG I wouldn't have considered going there since I think I am  
interested in WinAPRS or APRSSA. The point that I wish to make is  
that learning this stuff is more like an initiation rite than anything  
else. Stan Horzepa, I haven't read your book. I have picked it up  
in a store a couple of times and flipped thru it. My casual  
observation was that the book was about one program's (I can't remember  
which) drop down menus. Should I have looked more carefully??  
Maybe. What I think that I need is a big picture of APRS, not how  
to run a program. Also, the standard answer that it is all on the web  
is a little frustrating. I haven't quite figured out what to trust  
and what not to trust. I have enough of that problem with major  
hardware  
and software vendors!!

I haven't yet read the protocol but intend to. APRS looks like fun,  
but I don't have those 36 hour days arranged yet!! I get the impression  
from this SIG that the choice of symbolic digipeating requests is  
1) a black art, 2) knowledge that you are supposed to have been born  
with for any particular location, and 3) and that while you are driving  
you are supposed to change those symbolics!! Sounds like another  
initiation rite to me.

Now that I've dumped this problem back on you guys, let me back off.

1) This is a hobby. 2) You are clearly a bunch of guys dedicated to making this stuff better, and you seem to work very hard at that. I applaud you. If I were writing APRS\*\*\* I would likely feel that my time was better spent on that than APRS 101. If all I wanted was to put a tracker on my teenagers car ;>)) I might not feel induced to write a tutorial.

In summary, I think that we have a difficult education problem. If anyone takes on addressing this problem, from the slant that I have put on this, or any other slant, I would be glad to help by critiquing. Actually, I'd like to help other ways. Please ask.

Keep it up, es 73

Alan n4lbl

---

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

---

### 385. [aprssig] Re: map.findu.com

From: pc@mds.com (Alfred Lee, Mail List Account)  
Date: Wed, 7 Jun 2000 16:51:59 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89445-2000.06.07-18.58.01--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Just my 0.02:-)

I know JavaAPRS can play back pre-recorded data. Is it possible to pull the SQL data on the fly and re-format them into JavaAPRS format and feed it to JavaAPRS?

Alfred

-----

From: Thomas M. Schaefer[SMTP:toms@inconnect.com]  
Reply To: Thomas M. Schaefer  
Sent: Wednesday, June 07, 2000 2:31 PM  
To: TAPR APRS Special Interest Group  
Subject: [aprssig] Re: map.findu.com

It is possible to pull the historical data (with the properly develop CGI), but the problem I have been thinking of is how to produce the MAP. I have thought about this because I want to do the same thing. My only thought is to get the Street Atlas formats from Brent (please!), and create a Street Atlas file that can be downloaded. APRSPLUS actually does this with its own internal data).

So, if you can think of a way you would display the historical data, please let me know what you come up with. I would gladly create the CGI app to get the data and create the Street Atlas file on the fly -- but that is the best idea I currently have.

Tom NY4I

----- Original Message -----

From: "David W. Barrow III" <n9unr@execpc.com>  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Sent: Wednesday, June 07, 2000 10:22 AM  
Subject: [aprssig] map.findu.com

> Is there a way to replay a track on Findu.com?  
>  
> All I get when I log into it is a very stale position report.

>  
> Dave  
> --  
> Sincerely,  
> David W. Barrow III, d/b/a Stonewall Computer Center  
> Amateur Radio License - N9UNR  
> email address: n9unr@execpc.com - Web Page:  
> http://www.execpc.com/~n9unr/  
> "The only thing that good men must do  
> - for evil to prevail  
> - is nothing"  
> Edmund Burke

---

You are currently subscribed to aprssig as: alfred1520@geocities.com  
To unsubscribe send a blank email to leave-aprssi-842K@lists.tapr.org

---

You are currently subscribed to aprssig as: lyris.aprssi@tapr.org  
To unsubscribe send a blank email to leave-aprssi-842K@lists.tapr.org

---

### 386. [aprssi] Re: [htaprs] Re: D700 MESSAGE Keyboard

From: "Jim Gill" <gillj@uswest.net>  
Date: Wed, 7 Jun 2000 19:29:18 -0500  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Cc: <aprssi@tapr.org>  
Message-ID: <LYR842-89451-2000.06.07-19.33.00--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Yes, D700 is exactly the same as the D7. The only thing I'm still looking for is a way to \*erase\* a message with a command via the port. If you don't actually read the messages on the D700 control head on it's screen, the messages don't get marked as read. Then when 16 unread messages are in the buffer, you can't send new ones and any messages to the radio, it will respond with a rej000 (insert appropriate number) instead of an ack.

Otherwise the sequence described below works exactly as shown. This is really the preferred way to control the radio... through the port, not the mic.

Jim Gill  
N0RMO  
Omaha NE  
<http://www.netcom.com/~jimgill/tmd700a.htm>

----- Original Message -----

From: "<Walter> <Dunckel>" <walterd@radiohound.com>  
To: "TAPR Hot Technology APRS" <htaprs@lists.tapr.org>  
Sent: Wednesday, June 07, 2000 6:00 PM  
Subject: [htaprs] Re: D700 MESSAGE Keyboard

> I know the TH-D7 accepts these serial commands easily, and I expect the  
> TM-D700 does too. The TH-D7 command is...  
> AMSG 00,KD6VYV-7,Text message goes here  
> The 00 tells the radio to enter the message as an outgoing message (any  
> other number such as AMSG 01 will READ the corresponding message. KD6VYV-7  
> is the station you wish to send to.  
> I don't own a TM-D700 so I can't tell you if the command is going to be  
the  
> same. Anyone want to give it a try (Remember you will need the return  
> character at the end if you are programming a Pic chip - chr(13) ).I would  
> think that serial commands would be the way to go.

---

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To unsubscribe send a blank email to leave-aprssi-842K@lists.tapr.org

---

### 387. [aprssi] Re: [amsat-bb] Going Digital... Ham Radio?

From: "Earl S. Garber" <esgarber@teleport.com>  
Date: Wed, 07 Jun 2000 17:40:50 -0700  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-89453-2000.06.07-19.42.58--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Like I said on my website about APRS...

"...although it's not nearly "plug and play"  
(it's more like "plug and pray!") I always enjoy a good technical challenge...  
You know how SETI has this distributed computing project going?  
Well, APRS could best be described as having a distributed documentation project.  
One website has parameters, another has a FAQ, another has the program..."

The best collection of links to APRS sites that I've seen is on the NWAPRS  
site, <http://www.nwaprs.org/> .

...Earl, N3EG

---

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

---

### 388. [aprssig] Re: map.findu.com

From: Steve Dimse K4HG <k4hg@tapr.org>  
Date: Wed, 7 Jun 2000 17:39:45 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89452-2000.06.07-19.42.56--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 6/7/00 4:51 PM Alfred Lee, Mail List Account (pc@mds.com) wrote:

>I know JavaAPRS can play back pre-recorded data. Is it possible to pull the  
>SQL data on the fly and re-format them into JavaAPRS format and feed it  
>to JavaAPRS?

>

In theory yes, you just replace the filename with a url to the history  
CGI. Never tried it, and of course there is the security problem where  
the applet, web page, and data must come from the same server.

Steve K4HG

---

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

---

### 389. [aprssig] Re: map.findu.com

From: Steve Dimse K4HG <k4hg@tapr.org>  
Date: Wed, 7 Jun 2000 17:41:03 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89454-2000.06.07-19.44.16--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 6/7/00 2:31 PM Thomas M. Schaefer (toms@inconnect.com) wrote:

>So, if you can think of a way you would display the historical data, please  
>let me know what you come up with. I would gladly create the CGI app to get  
>the data and create the Street Atlas file on the fly -- but that is the best  
>idea I currently have.

>

I have to create a general CGI to do a breadcrumb track for the Microship  
project, but that will use prescanned nautical charts. If there were a  
service that returned maps in png format, it would be relatively easy...

Steve K4HG

---

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

---

### 390. [aprssig] RE: WinCE terminal program

From: "K9GPS" <k9gps@one.net>  
Date: Wed, 7 Jun 2000 21:12:13 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89458-2000.06.07-20.15.46--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The one and only communications program for the Windows CE P/PC is at  
this address. It works very well. You can download a trail version for  
30 days usage so try it out. I paid the registration fee after finding  
it to be just what I needed for packet and other communications that I  
typically use with Procom on my other desktop and laptop computers.

<http://www.cam.com/update/pkhpcUpdate.html>

73 de K9GPS Lee  
SE Indiana having a great time with APRS!

-----Original Message-----

From: bounce-aprssig-13536@lists.tapr.org  
[mailto:bounce-aprssig-13536@lists.tapr.org] On Behalf Of BobD  
Sent: Wednesday, June 07, 2000 4:30 PM  
To: TAPR APRS Special Interest Group  
Subject: [aprssig] WinCE terminal program

Anyone found a simple terminal program for WinCE devices that can be used to setup/communicate with TNCs ?

---

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---

### 391. [aprssig] WANTED Motorola XT Oncore receiver

From: Robert Boeckman <machead@black-hole.com>  
Date: Wed, 7 Jun 2000 21:16:31 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89466-2000.06.07-21.22.15--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I am looking for a Motorola Oncore basic GPS. I am adding a tracker and my other units are old Motorola's. To keep things interchangeable I would like the same type GPS. The basic black box with a DB9. I will also need the antenna. Should you like to part with one, drop me a note off list. Thanks.....Rob

Rob's home page  
<http://www.black-hole.com/users/tardis/>

---

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

---

### 392. [aprssig] Re: Installation of equipment (2nd car battery)

From: Glenn Little <glittle@awod.com>  
Date: Wed, 07 Jun 2000 22:17:28 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89467-2000.06.07-21.31.06--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

This battery DOES contain acid. Batteries generate electricity due to a chemical reaction. Using lead-acid technology, tells the user that the plates are lead and the electrolyte is acid. The acid in this battery is in a gelled form rather than a liquid form. This makes the electrolyte harder to spill. The plates are designed such that the hydrogen and oxygen that are produced during the charge of the battery are absorbed faster than the gas is liberated. This provides for a limited maintenance (advertised as a zero maintenance) battery. If the decomposing water can be absorbed at a rate faster than it is being decomposed there is very minimal water loss during the charge cycle. This reduces the hydrogen gas generated and the loss of water.

73  
Glenn  
WB4UIV

At 02:41 PM 6/7/00 -0700, Powerwerx wrote:

>Batteries:

>

>Another product that you should check out is the Optima Battery:

>

><http://www.optimabatteries.com/main.htm>

>

>These batteries are unique as they do not contain acid.

>

>The Optima is a sealed, zero-maintenance battery that combines proven

>lead-acid electrochemistry with advanced Spiralcell Technology to create the

>Best Batteries in the World! (From there web site!)

>

>They are getting more popular now as they are setting up retail store. A lot

>of Off-roaders, marine racers use these as they don't leak when you flip

>over.

>  
>I have been thinking of installing one of these in my Expedition.  
>  
>73, ken, KM6YH  
>  
>  
>----- Original Message -----  
>From: "Rich" <n0rul@kscable.com>  
>To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
>Sent: Wednesday, June 07, 2000 1:53 PM  
>Subject: [aprssig] Re: Installation of equipment (2nd car battery)  
>  
>  
>KD4YDC & the group,  
> You didn't mention where you wanted to mount the second battery but  
>sometimes space is difficult to find under the hood. If you are considering  
>installation of a second battery then consider what I found last year.  
>Everyone I checked with said to mount it under the hood away from the  
>passenger compartment to reduce the risk of battery acid spraying onto  
>passengers during an accident along with a list of fire and other safety  
>concerns cited by almost everyone I talked to. NASCAR folks suggest any  
>battery box placed within the passenger compartment of a vehicle be  
>completely sealed of 1/4 inch thick aluminum and firmly mounted. Metal  
>battery boxes that meet the NASCAR regs can be ordered from auto part stores  
>but appear expensive for what they are.  
> I wanted easy access to my second battery and was concerned about not  
>venting such battery so I opted to install a smaller than desired second  
>battery into available space under the hood of my sedan using an isolation  
>wiring harness that is built for many different car models which Pepboys or  
>your local auto store sells.  
> Not sure how much space is under the hood of your Aerostar- but size a  
>deep cycle marine battery to fit some empty open space under your hood and  
>use an isolation kit from the auto store to connect it to your alternator.  
>Good luck.  
>73 de Rich, n0rul  
>mailto:n0rul@kscable.com  
>  
>----- Original Message -----  
>Subject: [aprssig] Installation of equipment  
>...  
> > I am getting ready to move all my ham equipment (one vhf/uhf voice radio  
> > and one packet station) into a 1996 Ford Aerostar. Curious if anyone has  
> > this van and could shed some insight on your installation(s). I have  
> > often toyed with the idea of putting in a second battery in my old van,  
> > maybe the time to do it now. I have seen an installation of one local  
> > APRSer that was wonderful! Not sure if I have the know how or skills to  
> > do that though (had some kind of insulation block for the second batt.  
>...  
>  
>  
>---  
>You are currently subscribed to aprssig as: kjm@powerwerx.com  
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>To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

```

-----
Glenn Little          glittle@awod.com    QCWA  LM 28417
Amateur Callsign:    WB4UIV          wb4uiv@amsat.org    AMSAT  LM 2178
QTH:  Goose Creek, SC USA (EM92xx)    ARRL  TAPR
-----

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### 393. [aprssig] Re: Installation of equipment (2nd car battery)

```

From: Powerwerx <kjm@powerwerx.com>
Date: Wed, 07 Jun 2000 19:38:00 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Message-ID: <LYR842-89473-2000.06.07-21.44.20--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

Glen:

You are correct. What I meant to say was that they do not contain "Liquid" acid. I know that they have a gel state acid inside.

I didn't want to get into the chemistry lesson on the sig, but all you stated below is exactly correct. And yes, I have a degree in chemistry and worked for 18 years with national chemical company.

73, ken, KM6YH

----- Original Message -----

From: "Glenn Little" <glittle@awod.com>

To: "Powerwerx" <kjm@powerwerx.com>

Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Sent: Wednesday, June 07, 2000 7:17 PM

Subject: Re: [aprssig] Re: Installation of equipment (2nd car battery)

This battery DOES contain acid. Batteries generate electricity due to a chemical reaction. Using lead-acid technology, tells the user that the plates are lead and the electrolyte is acid. The acid in this battery is in a gelled form rather than a liquid form. This makes the electrolyte harder to spill. The plates are designed such that the hydrogen and oxygen that are produced during the charge of the battery are absorbed faster than the gas is liberated. This provides for a limited maintenance (advertised as a zero maintenance) battery. If the decomposing water can be absorbed at a rate faster than it is being decomposed there is very minimal water loss during the charge cycle. This reduces the hydrogen gas generated and the loss of water.

73

Glenn

WB4UIV

At 02:41 PM 6/7/00 -0700, Powerwerx wrote:

>Batteries:

>

>Another product that you should check out is the Optima Battery:

>

><http://www.optimabatteries.com/main.htm>

>

>These batteries are unique as they do not contain acid.

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>The Optima is a sealed, zero-maintenance battery that combines proven lead-acid electrochemistry with advanced Spiralcell Technology to create the

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>

>73, ken, KM6YH

>

>

>----- Original Message -----

>From: "Rich" <n0rul@kscable.com>

>To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

>Sent: Wednesday, June 07, 2000 1:53 PM

>Subject: [aprssig] Re: Installation of equipment (2nd car battery)

>

>

>KD4YDC & the group,

> You didn't mention where you wanted to mount the second battery but

>sometimes space is difficult to find under the hood. If you are considering

>installation of a second battery then consider what I found last year.

>Everyone I checked with said to mount it under the hood away from the

>passenger compartment to reduce the risk of battery acid spraying onto

>passengers during an accident along with a list of fire and other safety

>concerns cited by almost everyone I talked to. NASCAR folks suggest any

>battery box placed within the passenger compartment of a vehicle be

>completely sealed of 1/4 inch thick aluminum and firmly mounted. Metal

>battery boxes that meet the NASCAR regs can be ordered from auto part

>stores

>but appear expensive for what they are.  
> I wanted easy access to my second battery and was concerned about not  
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>battery into available space under the hood of my sedan using an isolation  
>wiring harness that is built for many different car models which Pepboys or  
>your local auto store sells.  
> Not sure how much space is under the hood of your Aerostar- but size a  
>deep cycle marine battery to fit some empty open space under your hood and  
>use an isolation kit from the auto store to connect it to your alternator.  
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Glenn Little           glittle@awod.com    QCWA  LM 28417
Amateur Callsign:  WB4UIV           wb4uiv@amsat.org    AMSAT LM 2178
QTH:  Goose Creek, SC USA (EM92xx)  ARRL  TAPR
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### 394. [aprssig] Re: Installation of equipment (2nd car battery)

From: Powerwerx <kjm@powerwerx.com>  
Date: Wed, 07 Jun 2000 19:43:17 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89474-2000.06.07-21.49.17--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Here is a little more info from there web site:

#### Spiralcell Design

Each individual cell contains only two plates, one positive and one negative. These thin lead plates are wound into a tight spiral and separated by an absorbent glass material. This material is very thin allowing for the lead plates to be closer together. The close proximity of the lead plates enhances the flow of electrical current and lowers the batteries internal resistance delivering higher amounts of power.

The tightly wound cell locks the lead plates in place allowing the Optima to use a higher purity lead that requires fewer alloys to strengthen the plates. With higher lead purity the grid resists corrosion and lasts longer in high temperature environments and lowers the internal resistance.

With this design the Optima can use thinner lead plates allowing more winds per cell increasing the amount of surface area in the cell. This increases the amount of energy stored in the battery.

#### Sealed Case Design

The spiralcells are pressure-inserted into the individual cylinders. There is no free space between the plates preventing shorting between the plates



and damage due to vibration.

Once the cells are fitted, electrolyte is injected into each cell and is absorbed by the porous glass separator material like a sponge. This locks the electrolyte in preventing spilling or leaking even if the case is ruptured. It also prevents the active material on the plates from drying out.

With the Optima completely sealed you get a battery that eliminates corrosion, can be mounted in any position and requires no special storage or handling procedures.

73, ken, KM6YH

----- Original Message -----

From: "Powerwerx" <kjm@powerwerx.com>  
To: "Glenn Little" <glittle@awod.com>  
Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Sent: Wednesday, June 07, 2000 7:38 PM  
Subject: Re: [aprssig] Re: Installation of equipment (2nd car battery)

Glen:

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Glenn  
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```

>
>73, ken, KM6YH
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>----- Original Message -----
>From: "Rich" <n0rul@kscable.com>
>To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
>Sent: Wednesday, June 07, 2000 1:53 PM
>Subject: [aprssig] Re: Installation of equipment (2nd car battery)
>
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>KD4YDC & the group,
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>installation of a second battery then consider what I found last year.
>Everyone I checked with said to mount it under the hood away from the
>passenger compartment to reduce the risk of battery acid spraying onto
>passengers during an accident along with a list of fire and other safety
>concerns cited by almost everyone I talked to. NASCAR folks suggest any
>battery box placed within the passenger compartment of a vehicle be
>completely sealed of 1/4 inch thick aluminum and firmly mounted. Metal
>battery boxes that meet the NASCAR regs can be ordered from auto part
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>but appear expensive for what they are.
> I wanted easy access to my second battery and was concerned about not
>venting such battery so I opted to install a smaller than desired second
>battery into available space under the hood of my sedan using an isolation
>wiring harness that is built for many different car models which Pepboys or
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> Not sure how much space is under the hood of your Aerostar- but size a
>deep cycle marine battery to fit some empty open space under your hood and
>use an isolation kit from the auto store to connect it to your alternator.
>Good luck.
>73 de Rich, n0rul
>mailto:n0rul@kscable.com
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> > I am getting ready to move all my ham equipment (one vhf/uhf voice radio
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>To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
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>You are currently subscribed to aprssig as: GLITTLE@AWOD.COM
>To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

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-----
Glenn Little          glittle@awod.com    QCWA  LM 28417
Amateur Callsign: WB4UIV    wb4uiv@amsat.org    AMSAT LM 2178
QTH:  Goose Creek, SC USA (EM92xx)    ARRL  TAPR
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```

### 395. [aprssig] PMAP 40 and 2.4.7

```

From: "Cal Davis, KF4LAR" <kf4lar@hiwaay.net>
Date: Wed, 7 Jun 2000 22:1:23
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

```

Message-ID: <LYR842-89476-2000.06.07-22.04.24--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

I have 2.4.7 loaded and PM 4.0. As I zoom in on the maps, I get to the point where the street level detail should take effect and the map goes blank as if it were not reading the data files.

I have the state data in c:\Pmap40\states and the other files are correct also. The Precision Mapping settings shows the "CD\_Rom Drive" as "C" also.

As I zoom in, there are areas where gibberish in 3 and 4 letter combinations that disappear if I remove the check next to "City/County/Place Names".

Any suggestions?

Cal Davis, KF4LAR  
kf4lar@hiwaay.net

---

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To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org

---

### 396. [aprssid] Tiny Trak and Rand McNally GPS

From: "Eric Raub" <ki0mi@earthlink.net>  
Date: Wed, 7 Jun 2000 22:37:05 -0500  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-89477-2000.06.07-22.40.48--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

Has anyone been able to use the \$80 Rand McNally GPS with a Tiny Trak? How did you power the GPS? Any known problems with such a tracker station?

Thanks!

73, KI0MI

---

You are currently subscribed to aprssid as: lyris.aprssid@tapr.org  
To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org

---

### 397. [aprssid] Re: PMAP 40 and 2.4.7

From: wo4u@juno.com  
Date: Wed, 7 Jun 2000 23:41:00 -0400  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-89478-2000.06.07-22.45.23--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

On Wed, 7 Jun 2000 22:1:23 "Cal Davis, KF4LAR" <kf4lar@hiwaay.net> writes:

> I have 2.4.7 loaded and PM 4.0. As I zoom in on the maps, I get to  
> the  
> point where the street level detail should take effect and the map  
> goes  
> blank as if it were not reading the data files.

>  
> I have the state data in c:\Pmap40\states and the other files are  
> correct  
> also. The Precision Mapping settings shows the "CD\_Rom Drive" as  
> "C"  
> also.

I may have missed a message along the way but I have yet to see an answer from the Brothers Sproul as to whether or not a new version of PMAP\_OCX.zip is required to allow PM 4.0 to work with the current version of WinAPRS. It seems as though this question has been asked numerous times. Anybody know the answer??

Paul - W04U

---

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<http://dl.www.juno.com/get/tagj>.

---

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### 398. [aprssid] Fw: Triple Balloon Flight Launch Notice

From: "Mark D. Conner" <mconner@null.net>  
Date: Wed, 7 Jun 2000 23:09:54 -0500  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-89480-2000.06.07-23.13.12--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Weather looks marginal for Saturday - may have high surface winds. We hope to have I-gate support in the KC area to put the data onto APRServe.

73 de Mark N9XTN

> HABITAT/SkyLab, Near Space Balloon Group, and Mark Conner, N9XTN, are  
> planning a triple balloon launch from the Kansas City area (38 42.324N  
> 95 00.28W) on June 10, 2000 at approximately 7:00 am CDT. Using  
> callsigns KA0JLF-11, N3KKM-11, and N9XTN-11, the 3 capsules plan on  
> transmitting APRS on 144.340 FM. The groups plan to use 300gram balloons  
> and nearly equal payloads to reach an altitude of 50,000 ft +/-.  
> --  
> -----  
> Bill All N3KKM  
> <http://www.kcnet.com/~n3kkm>  
> Near Space Balloon Group <http://www.kcnet.com/~n3kkm/nearspace.html>  
> -----  
>

---  
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---

### 399. [aprssid] Re: PMAP 40 and 2.4.7

From: Gun Steele W0GUN <w0gun@arrl.net>  
Date: Wed, 7 Jun 2000 23:55:38 -0500  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-89483-2000.06.07-23.58.52--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Cal & Paul,  
Keith email:

We currently do not support version 4.0, they TOTALLY changed the interface, the manual is 2 inches thick, and we have to re-do it.. Mark IS working on it, but it just takes time..

Keith

Gun Steele W0GUN

----- Original Message -----

From: <wo4u@juno.com>  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Sent: Wednesday, June 07, 2000 10:41 PM  
Subject: [aprssid] Re: PMAP 40 and 2.4.7

>  
>  
> On Wed, 7 Jun 2000 22:1:23 "Cal Davis, KF4LAR" <kf4lar@hiwaay.net>  
> writes:  
> > I have 2.4.7 loaded and PM 4.0. As I zoom in on the maps, I get to  
> > the  
> > point where the street level detail should take effect and the map  
> > goes  
> > blank as if it were not reading the data files.  
> >  
> > I have the state data in c:\Pmap40\states and the other files are  
> > correct  
> > also. The Precision Mapping settings shows the "CD\_Rom Drive" as  
> > "C"  
> > also.  
> > I may have missed a message along the way but I have yet to see an answer  
> > from the Brothers Sproul as to whether or not a new version of  
> > PMAP\_OCX.zip is required to allow PM 4.0 to work with the current version  
> > of WinAPRS. It seems as though this question has been asked numerous  
> > times. Anybody know the answer??

>  
> Paul - W04U  
>  
> \_\_\_\_\_  
> YOU'RE PAYING TOO MUCH FOR THE INTERNET!  
> Juno now offers FREE Internet Access!  
> Try it today - there's no risk! For your FREE software, visit:  
> <http://dl.www.juno.com/get/tagj>.  
>  
> ---  
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---

#### 400. [aprssig] Re: Going Digital... Ham Radio?

From: Earl Needham <kd5xb@amsat.org>  
Date: Wed, 07 Jun 2000 16:20:23 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89500-2000.06.08-00.24.31--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 06:12 PM 6/7/00 -0400, Rich Mulvey blasted the following out into the ether:  
>On 07-Jun-00 Earl Needham wrote:

><snip>  
> > In other words, I speak into my "convertor", the signal goes  
> > through MELROZ, FORT, GALPK, and whatever other digis, all the way to say,  
> > Albuquerque, and the result can be understood with no computer, no TNC,  
> > nothing except a speaker and a person listening. At each digi, no less.  
>  
> Well, you've essentially just described linked repeater systems, which  
> have  
>been around for years. :-)

Except for one thing.  
Once we get this going, the next thing is to have our appliance  
(won't be a TNC by then) TALK to us on the air. It could give us  
telemetry, position, whatever, all in English. Or Spanish. Or Athabaskan,  
for that matter...

> What you suggest is the added value of digitizing  
>the audio - especially considering the difficulty of dealing with the latency  
>delays inherent in the system?  
>  
> - Rich

Yes, it'll be a job, but WOW! What an advance!

7 3  
Earl

---  
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---

#### 401. [aprssig] RE: PMAP 40 and 2.4.7

From: Bill Diaz <billdiaz@megsinet.net>  
Date: Thu, 8 Jun 2000 01:31:44 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89507-2000.06.08-02.22.14--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Cal,

I don't think 2.4.7 supports PMap 4.0 map data. The OCX that would be required for accessing this data would be named MapPro40.OCX. This OCX must be distributed with any application that uses the Pmap 4.0 data. If you don't have this OCX on your system you cannot use the PMap 4.0 data with WinAprs. No exceptions.

Chicago Map called me today and asked if WinAprs was using Pmap 4.0 mapping data. It seems that they had several calls from hams who wanted to purchase Pmap 4.0 for use with WinAprs 2.4.7. Since the 2.4.7 zip file did not contain the OCX required for Pmap 4.0 and the new OCX file was not at the Rutgers site, I informed Chicago Map that it was highly unlikely that the new release of WinAprs used Pmap 4.0 mapping data. Chicago Map said they would advise all

subsequent callers who requested Pmap 4.0 maps for use with WinAprs 2.4.7 to contact the authors to confirm that it would, in fact work with Pmap 4.0 data.

I have MapPro40.OCX and necessary 4.0 mapping data installed on my system. When 2.4.7 is initialized it loads Pmap 3.5 data, not 4.0 data.

If a Pmap OCX is initialized without access to the Data1, Data3, and States directory it will display a map of the entire US. As the user starts to zoom in, the map will turn yellow, and no detail will be displayed. If there is a mismatch between the mapping data, and OCX, garbage data may appear on the map.

Apparently the confusion stems from errors in versions 2.4.5, and 2.4.6 that prevented users who had Pmap 4.0 installed on their systems from using WinAprs with Pmap. Version 2.4.7 eliminated this error, and restored the use of WinAprs to users who had both Pmap versions on their systems. However, 2.4.7 appears to use only Pmap 3.x rather than Pmap 4.x.

Bill KC9XG

On Tuesday, June 06, 2000 9:00 PM, Cal Davis, KF4LAR [SMTP:kf4lar@hiwaay.net] wrote:

```
> I have 2.4.7 loaded and PM 4.0. As I zoom in on the maps, I get to the
> point where the street level detail should take effect and the map goes
> blank as if it were not reading the data files.
>
> I have the state data in c:\Pmap40\states and the other files are correct
> also. The Precision Mapping settings shows the "CD_Rom Drive" as "C"
> also.
>
> As I zoom in, there are areas where gibberish in 3 and 4 letter
> combinations that disappear if I remove the check next to
> "City/County/Place Names".
>
> Any suggestions?
>
> Cal Davis, KF4LAR
> kf4lar@hiwaay.net
>
>
> ---
> You are currently subscribed to aprssig as: BILLDIAZ@MEGSINET.NET
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```

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---

## 402. [aprssi] APRSdos

```
From: Ron Walther <rascal@azstarnet.com>
Date: Thu, 08 Jun 2000 01:20:51 -0700
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>
Message-ID: <LYR842-89510-2000.06.08-03.23.03--lyris.aprssi#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

Hey Folks;

I am trying to get APRSdos running on the Citadel Computer and I must be missing the boat somewhere....I keep getting a msg: "APRS did not see a DIGIpeat of your last packet" plus I do not see any icons on the map although the TH-D7 is receiving packets..I am xmitting ok...

Can anyone help with some advice..??..

73, Ron -- W7AI

---

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---

## 403. [aprssi] Re: Going Digital... Ham Radio? Microsoft

```
From: Bill Vodall <wa7nwp@bigsky.com>
Date: Thu, 8 Jun 2000 02:12:29 -0700 (PDT)
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>
Cc: seatcp@wetnet.wa.com
```

On Wed, 7 Jun 2000, Doug McFadden wrote:

> On Tue, 6 Jun 2000, Bob Bruninga wrote:  
>  
> > Date: Tue, 6 Jun 2000 18:28:55 -0400 (EDT)  
> > From: Bob Bruninga <bruninga@nadn.navy.mil>  
> > To: TAPR APRS Special Interest Group <aprssi@lists.tapr.org>  
> > Subject: [aprssi] Going Digital... Ham Radio?  
> >  
> > Packet Radio Affectionados,  
> >  
> > We have had packet radio for 22 years and yet we are seeing a decline  
> > of digital operations on HAM radio (with some exceptions) at the same time  
> > that we are seeing an Explosion of Wireless digital applications in the  
> > consumer market.

The modes done wrong (AX25 bbs's, etc) are dieing. Better technologies  
such as APRS (for AX25), TCP, and magic new HF modes like PSK31 are  
taking their place. This is a good thing.

> > We are not doing a good job of promoting nor explaining what digital  
> > is all about. The following message I received says it all...  
> >  
> > > 26 May, 2000  
> > > From: [not published, but with permission]  
> > > Bob,  
> > >  
> > > I really enjoyed your Op-Ed published in June's QST "Going Digital".  
> > > I'm one of those hams who knows nothing about TNCs and how to use them.  
> > > I've been searching the Internet and asking around and have yet to find  
> > > a comprehensive source for information on it. All I want to do is  
> > > connect my computer to my HT and connect to other hams doing the same.  
> > >  
> > > The lack of information seems to be pervasive. I'm a member of a newly  
> > > formed club of hams working at Microsoft in Redmond, WA and when I  
> > > suggested that a monthly meeting be dedicated to a demonstration of  
> > > packet radio, we found that nobody in our 80 member club had either the  
> > > equipment or the knowledge to present the topic....  
> > > Sincerely  
> > > [name on file]

It's interesting that the Microsoft campus is darn near in the  
middle of one of the more involved Amateur TCP networks, <http://wetnet.wa.com>,  
and right in the middle of a first class APRS network! <http://www.nwapr.org>  
You're right Bob, we have to advertise better to our neighbors on the hill...

> > If HAMS at Microsoft are not familiar with Packet Radio, then it is easy  
> > to see why we are where we are today with amateur packet radio... With  
> > all the world going digital and Now that Kenwood and ALinco are making  
> > off-the-shelf 9600 baud systems, AMATEUR PACKET RADIO IS ONLY BEGINNING!  
> > Lets reach out....  
> >  
> > de WB4APR, Bob  
> >  
> > You seem pretty optomistic about packet radio? I'm sorry, I don't see it  
> > that way. Running APRS & FBB at 9600 baud isn't going to get it I'm  
> > afraid. What else is there?  
> >  
> > 73 de Doug  
> > KC7IMR

What else? "E1" circuits? 56K dedicated internet links? We use  
amateur circuits for Internet links. Voice. Data. Video. It  
all can work for us.

Anything done on the basic Internet can be done with Ham Radio.  
Sometimes we lose out due to the economics of scale. But never do  
we lose due to economics of fun. And the sense of satisfaction that  
comes from doing new exciting "geek stuff" on our own can't be beat.  
Some of it is "old hat". Other projects are the industry products  
of the future.

With the cheap powerful hardware and developing software available today,  
opportunities for "fun geek stuff" have never been better.

There's a lot of smart folks at Microsoft. And they're involved in  
some pretty cool wireless projects. Add a little of that talent to our

resource pool and who knows what'll come of it. Tux will welcome them. :-)

Bob's right on, "AMATEUR PACKET RADIO IS ONLY BEGINNING!"

Bill,  
WA7NWP

ps. I'm still waiting for somebody to run some TCP tests with the Kenwood D700 or D7 radios. Alinco too? It's very possible a D700 mobile could function simultaneously as an APRS mobile and an Internet link.. How about that - a mobile Igate.. <grin> 9600 is slow but it's good for a start.

---

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#### 404. [aprssig] Virgina Special Olympics Torch Run

From: N4QWF@aol.com  
Date: Thu, 8 Jun 2000 06:26:52 EDT  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-89521-2000.06.08-05.30.07--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The Lynchburg Amateur Radio Club is supporting the Torch Run from Lynchburg to Charlottesville, Va. 6/8/00. The support vehicle is equipped with a Pico packet GPS and Radio. The Icon will be a Red "X" with the object name of VAS0. Have fun tracking. 73's << John

---

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---

#### 405. [aprssig] Re: WinCE terminal program

From: "Marco Savegnago" <[msave@tin.it](mailto:msave@tin.it)>  
Date: Thu, 8 Jun 2000 6:31:51  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-89523-2000.06.08-06.34.49--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 06/07/00, "BobD" <[BobD@virtualconst.com](mailto:BobD@virtualconst.com)>" wrote:  
> Anyone found a simple terminal program for WinCE devices that can be used to  
> setup/communicate with TNCs ?

I've write a quick and dirty terminal program (just open port, setup port and comunicate with device, no split, no capture, no send file, no documentation!) for my handheld WinCE 2.0 device (Ericsson MC12 that is based on Hitachi SH3) using sample code that come with WinCE Toolkit. Normally I use it with my TH-D7. I can compile the code for other hardware device but I cannot test it.

Let me know if you are interested.

Marco IW3FQG

---

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#### 406. [aprssig] Re: APRS support of the 2000 HP Women's Challenge Bicycle race

From: Doug Rich <[doug@safelink.net](mailto:doug@safelink.net)>  
Date: Thu, 08 Jun 2000 05:45:56 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-89525-2000.06.08-06.49.15--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Updae - the tac call pelatn may not be used. If it does not work used:

<http://map.fundu.com/kd6gcl-9>

At 08:09 AM 6/7/2000 -0600, you wrote:  
>This year's Women's Challenge race will run from June 8 through June 18.  
>It will have eleven stages, one each day, and we will support at least 8  
>of those stages. This is the fourth year to provide Amateur Radio support.  
>This year we will use APRS with links to our Boise, Idaho Igate. We have  
>four positions that travel with the race: one in the caravan, one at the



>finish line, and two relays. Weather permitting, some stages will also  
>have air support, an airborne relay or two. We have difficult terrain to  
>cover, high Idaho MOUNTAINS with NO commercial rf coverage including cell  
>phones and even police and emergency radios. We strive for 100% coverage  
>for communications with the caravan of vehicles that accompanies the  
>bicycle racers.  
>Most of the race (largest women's bicycle and largest purse in the world)  
>will be ported to the internet and can be viewed with standard APRS  
>software plus findu.com andaprs.net. The vehicle in the race with APRS  
>will have the tactical call of pelatn. You could use  
><http://map.fundu.com/pelatn> .  
>  
>The schedule is (all times MDT):  
>  
>#1 Birds of Prey to Idaho City - Thursday, June 8, 11am, 3:05 hours, 9.5 miles  
>#2 Lowman to Stanley - Friday, June 9, 11am, 2:38 hours, 58.5 miles  
>#4 Rupert to Pomerelle - Sunday, June 11, 1pm, ~3 hours, 56.4 miles  
>#6 Burley to Buhl - June 13, 10:30 am, 3:53 hours, 84.2 miles  
>#7 Twin Falls to Glenns Ferry - Wednesday, June 14, 11am, 3:15 hours, 76.7  
>miles  
>#8 Letha to Firebird Raceway - Thursday, June 15, 12pm, ~4 hours, 79.4 miles  
>#9 Mountain Home to Mountain Home AFB - Friday, June 16, 12 pm, ~3.5  
>hours, 71.5 miles  
>#10 Middleton to Hyde Park, Sunday, June 18, 11am, 2:08 hours, 50.6 miles  
>Doug KD6GCL also [kd6gcl@arll.net](mailto:kd6gcl@arll.net)  
>  
>  
>---  
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#### 407. [aprssig] Re: Going Digital... Ham Radio?

From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
Date: Thu, 8 Jun 2000 08:41:18 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-89529-2000.06.08-07.44.22--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Wed, 7 Jun 2000, Doug McFadden wrote:

> > If HAMS at Microsoft are not familiar with Packet Radio, then it is easy  
> > to see why we are where we are today with amateur packet radio...  
> > de WB4APR, Bob  
> >  
> You seem pretty optimistic about packet radio? I'm sorry, I don't...  
> If you're serious about "new beginnings" then it's time to get off the  
> pot, quit waiting for Microsoft.  
> 73 de Doug  
> KC7IMR

No one is waiting for Microsoft. You missread the email. I used  
Microsoft as an example of a large company full of Geeks and in their  
radio club of 80 members, none felt experienced enough with packet radio  
to give a presentation on the subject.

That has nothing to do with Microsoft. It has to do with US as HAMS and  
the state of our hobby..

bob

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#### 408. [aprssig] Re: Going Digital... Ham Radio?

From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
Date: Thu, 8 Jun 2000 08:45:52 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-89531-2000.06.08-07.48.53--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Wed, 7 Jun 2000, Earl Needham wrote:

> I'd like to see a way to speak into a microphone, have the result  
> sent via a TNC (or similar), through digis, just like regular packet,  
> EXCEPT THAT THE AUDIO COULD BE UNDERSTOOD BY HUMAN EARS!

That capability exists (sort-of) with the VOICE option chip (\$39) for the Kenwood D700. Just type in your message and it will be spoken/spelled by the voice in the radio. Spelled most likely, but there are many words built into the synthesizer and many short messages can be communicated in geekspeak. Like I C U, etc...

bob

---

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---

#### 409. [aprssig] Re: KPC3+ Radio Port

From: twallace@ccgov.org  
Date: Thu, 8 Jun 2000 08:49:26 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "Brian B. Riley" <brianbr@macconnect.com>  
Message-ID: <LYR842-89532-2000.06.08-07.49.00--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

|                               |            |
|-------------------------------|------------|
| pin 1 is audio hi             | TXA        |
| pin 2 is gps port             | XCD        |
| pin 3 is tx                   | PTT        |
| pin 4 is control line B       | CTLB*      |
| pin 5 is speaker hi           | RXA        |
| pin 6 is speaker lo           | GND        |
| pin 7 is external power/reset | EXT-IN*    |
| pin 8 is control line A       | CTLA*      |
| pin 9 is ground/reset         | GRD/RESET* |

\* configureable with jumper changes  
PIN 4 is an open drain and will apply ground to the pin, do not exceed 50 volts and 200 mA  
using a ctrl command  
PIN 7 can be power from the radio or a reset depending on the settings of jumpers J6 and J7  
PIN 8 same as pin4 but can also be used as an analog input  
PIN 9 is factory ground but can be configured as a reset with jumper J5

---

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---

#### 410. [aprssig] Re: [amsat-bb] Going Digital... Ham Radio?

From: "Horzepa, Stan" <Stan\_Horzepa@adc.com>  
Date: Thu, 8 Jun 2000 08:08:10 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89533-2000.06.08-08.11.16--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The book describes how to set up and use the following programs: APRS (DOS), APRS+SA, MacAPRS, pocketAPRS, WinAPRS, and the APRS software contained in the original Kenwood TH-D7A.

Stan, WA1LOU

-----Original Message-----

Alan B Schulman [mailto:n4lbl@webaccess.net] wrote:

Stan Horzepa, I haven't read your book. I have picked it up in a store a couple of times and flipped thru it. My casual observation was that the book was about one program's (I can't remember which) drop down menus. Should I have looked more carefully??

---

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---

#### 411. [aprssig] SOLar Flare

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Thu, 8 Jun 2000 09:09:21 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89534-2000.06.08-08.12.54--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Tuesday (I think) there was a massive Solar Flare that ejected billions of tons of particles towards earth. Expected arrival is today and tomorrow. We are already seeing its effects. Our APRS HF freq is dead as well as the Navy APRS freq we use for tracking Naval Academy boats.

I wonder what effects we will notice from the amsat birds....

de WB4APR, Bob

---

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---

## 412. [aprssig] Re: Going Digital... Ham Radio?

From: mulveyr@iname.com  
Date: Thu, 8 Jun 2000 09:45:07 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: aprssig@lists.tapr.org  
Message-ID: <LYR842-89538-2000.06.08-08.50.15--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> Hmmm. We ramp up to 56k, go to subcarrier data channels, maintain  
> full-duplex, and put it on Cactus?

Yes, it would be possible, but, like I asked originally ( and which nobody has addressed ) - what is the added value? I'm not saying that there isn't any, but if someone wants to build a network - especially one that will be relatively expensive for individual hams to implement - what value can they expect to get from it? Especially when compared to linked repeaters.

- Rich

---

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---

## 413. [aprssig] Re: [amsat-bb] Going Digital... Ham Radio?

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Thu, 8 Jun 2000 10:05:39 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: Jon Ogden <jono@enteract.com>, Lee810@aol.com, amsat-bb@AMSAT.Org,  
TAPR APRS Special Interest Group <aprssig@tapr.org>,  
htaprs@lists.tapr.org  
Message-ID: <LYR842-89540-2000.06.08-09.09.46--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Gun Steele wrote:

> Bob, reading your post on the Hansen concept... I see people wanting  
> that untethered information in the real world. I am convinced that  
> wireless delivery to WinCE devices is going to be huge, but the content  
> is the key...

YES! And we Already we have it started:

In any area where someone is running APRStk, any Kenwood HT or Mobile within say 150 miles will see on its front panel, a "tiny web-page" showing the location, range and bearing of any FM satellites currently in view. AND once every 10 minutes they see a little "tiny web-page" showing them what satellites will be in view in the next 80 minutes.

Further, anyone can send "tiny web-page" views of all kinds of information to these radios from anywhere. Already we display:

- 1) The location, range and bearing of the last 40 APRS stns around you
- 2) The location, range and bearing of all DIGIpeaters in range
- 3) The local WEATHER including wind speed, direction, rain and temp
- 4) ANY APRS bulletins
- 5) Any APRS mail (think of this as Email)
- 6) And you can send out REAL EMAIL from the radio to ANYWHERE
- 7) Other data available on demand even in APRSdos:

- The locations of all the nearest Radio SHacks
- The locations of all the nearest HAM stores
- The locations of all the nearest NOAA WX Radio xmtrs and freqs
- The locations of all the nearest Nation WX service sites
- The locations of all the nearest wide area VOICE repeaters for
- The locatiOns of all the past Aircraft CRASH sites (for SAR)
- COnversion of Interstate MILE-MARKER data to LAT/LONG for translation of MM position to MAP position
- 8) The range bearing and distance to ANYTHING ON THE PLANET as long as someone transmits it. The nearest Gas station, Campground, anything (that is appropriate for HAM radio)...

Simply think of the Kenwood Radios as "TINY WEB-PAGE" viewers... and then the "content" that you want to see can be anything you can stuff onto the "TINY-WEB-PAGE" screen!

APRS includes a QUERY format so that any station anywhere, can query for ANY data anywhere. If you think of APRS as a ham radio INFORMATION RESOURCE that can display ANYTHING on the front panel of your radio, then you begin to see the HAM RADIO parallel to the internet that I am talking about..

de WB4APR, Bob

CAVEAT: Most of the above is in place. But there are not enough APRStk servers, nor do we have in place all the local infor "SERVERS" that are needed. But the APRS protocol can DO IT.... and the radios CAN DISPLAY IT!

We need to start nailing down the QUERY formats. I'm thinking in terms of the briefest possible formats because we will be entering them using the TTone pad on the radios:

```
?RS      - for Radio shacks and/ratio stores
?CG      - for camp grounds
?PK      - for Parks
?GS      - for Gas stations
?NWS     - for the WX Serveice sites
?WX      - ALREADY will report the local WX
?CRASHES - for the nearest recorded Aircraft crash sites
?APRS?   - Already returns all surronunding APRS stations
?FOOD    - Nearest fast food
etc...
```

We must guard against comercialism, but these are "resources" for the traveler and I see no problem telling someone by ham radio where he can find food! We do it by voice all the time...

---

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#### 414. [aprssi] Re: Going Digital... Ham Radio?

```
From: Keith Kotch <kotch@mpinet.net>
Date: Thu, 08 Jun 2000 10:14:47 -0400
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>
Message-ID: <LYR842-89543-2000.06.08-09.13.09--lyris.aprssi@tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

...and not necessarily a result of the "dumbing down of Amateur Radio" but probably more a result of the general atmosphere of "plug and play" mentality. We don't care how it works, just as long as it works when we want it.

Just look at everyone, me included, that just wants to be able to connect the gps to the tnc to the radio to the computer and fire up APRS with one button. Have everything pre-set so I don't have to understand. Well, I'm trying to change myself and learn more of how and why, but, time available to do so it precious and certainly not plentiful. This is something I think our clubs ought to be spending more time on....group training and Elmering.

Keith

--  
Keith K., Winter Park, FL  
kotch@mpinet.net  
AIM ID: knkotch ICQ: 48129866  
Amateur Radio Call: KF4BXT

Bob Bruninga wrote:  
>

> That has nothing to do with Microsoft. It has to do with US as HAMS and  
> the state of our hobby..

---  
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---

## 415. [aprssig] Re: Going Digital... Ham Radio?

From: "Guy Story" <gstory@iphase.com>  
Date: Thu, 8 Jun 2000 09:21:51 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89546-2000.06.08-09.25.39--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

IMHO, one of the reasons hams are not embracing packet as much as we use to is throughput. Since the data we want to send has been growing in size as the years have gone by, 1200 to 9600 baud on VHF+ is not a very proficient method of sending data. The problem gets compounded as channel activity increases. But this is pretty much a given fact. The radio and tnc manufacturers have made limited offerings of equipment that runs at 9600 and 19.2k but it has been at the upper end of the comfort scale on spending. The fact of life is that if we (hams) do not spend money on the initial offering of equipment from the sources we have, they will not spend money on future development. This is a vicious and unfortunate cycle.

Another factor is that a large number of hams do not know how to or want to modify existing radios to operate at higher baud rates.

All is not lost though. TAPR is currently working on a project that has several targeted goals, higher bandwidth and keeping the costs down so we can afford it. We are still talking about \$300+ dollars but this is not just a tnc or just a radio. The url is <http://www.tapr.org/tapr/html/Ftaprpfhss.html> for those who have not seen it. I have been watching this project with great anticipation of what it means to the Amateur Radio community and the possibilities it opens up. If you bought a 9600 baud ready radio and a 9600 baud tnc, you would hit \$500 easily.

Even if we were to step up to just 9600 baud on APRS, it would help out the areas that have high activity by making bandwidth available that was being used by a method 4 times as slow. The PIC-E kit also helps out in this effort since it can be programmed to send at nearly any baud rate. I say any in generalization since I am not sure what the limitations of the chips are but 9600 baud is doable.

I have been toying with the idea of attaching a 9600 baud tnc to the other port on my IGATE and operate both 9600 and 1200 baud on separate frequencies. There has been talk in the north Texas area of running APRS on 70 cm at 9600. At this point it has been just talk, but the people talking are likely to implement such activities.

Except for certain areas, packet is in a decline right now. This is temporary though and digital techniques will eventually be used in greater numbers. We are in a time of transition and how we react to this is very important. To a limited extent we have let the technology get past us. It is time to reclaim that ground and I can run off a huge list of people that we owe a large thank you for their efforts. But this email is too big as it is. While using existing equipment is ideal in most circumstances, we can not forget to innovate.

73,  
Guy Story,  
KC5G0I

---  
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---

## 416. [aprssig] Re: Going Digital... Ham Radio?

From: "Guy Story" <gstory@iphase.com>  
Date: Thu, 8 Jun 2000 09:37:28 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Message-ID: <LYR842-89550-2000.06.08-09.40.39--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

>...and not necessarily a result of the "dumbing down of Amateur Radio"  
>but probably more a result of the general atmosphere of "plug and play"  
>mentality. We don't care how it works, just as long as it works when we  
>want it.

I am not too sure this is always a bad thing. There is the thought among many that if you are not technically inclined, then you should not be in the hobby. We have a very good base of people that are great with fixing and installing and then others that are power users. When we have events in our area that I am the netcontrol, I try to allocate the power operators with equipment setups that are no-brainers and the technical people with the tasks of problem solving. It never fails that you have plenty of one and not enough of the others.

>Just look at everyone, me included, that just wants to be able to  
>connect the gps to the tnc to the radio to the computer and fire up APRS  
>with one button. Have everything pre-set so I don't have to understand.  
>Well, I'm trying to change myself and learn more of how and why, but,  
>time available to do so is precious and certainly not plentiful.

I am guilty of this too and when I am in the mindset for learning, I focus on what I am active in. A good example that I made the effort to interface the Mavin GPS, PIC-E and the GST-2 that Byon made. Bingo, a traditional tracker made without traditional gear. I learned many things from this project.

>This is something I think our clubs ought to be spending more time  
>on...group training and Elmering.

I strongly agree with Keith on this point. Many of the guys who have been elmers on the scale of a club level have caught flack for doing so. I am one of them. But I do not let it stop my efforts to show other modes of operations in the hobby.

73, Guy Story  
KC5G0I

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## 417. [aprssid] Re: AFilter 1.16

From: Tate - KC7ZRU <kc7zru@cyberhighway.net>  
Date: Thu, 08 Jun 2000 08:36:27 -0600  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-89551-2000.06.08-09.40.43--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

Yup - AFilter116.zip and associated files are available on the URL below.

73

Bill Diaz wrote:

>  
> AFilter 1.16 is available for download at  
> ftp://ftp.billdiaz.dynip.com/outgoing/ Bandwidth is limited, and the files are  
> only available when I am on line.  
>  
> You can also try Tate's site at http://www.cyberhighway.net/~tateb/ if my  
> site is not available.  
>  
> Bill KC9XG  
>

--

|             |  |                 |
|-------------|--|-----------------|
| KC7ZRU      |  | In Laramie Area |
| Laramie, WY |  | UARC Repeater   |
| DN71eh      |  | 146.610         |

"The Dungeon" online at <http://www.cyberhighway.net/~tateb>  
Redhat LINUX 6.1

---

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#### 418. [aprssig] Re: Going Digital... Ham Radio?

From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
Date: Thu, 8 Jun 2000 11:01:21 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>, [amsat-bb@amsat.org](mailto:amsat-bb@amsat.org)  
Message-ID: <[LYR842-89562-2000.06.08-10.04.46--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-89562-2000.06.08-10.04.46--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

> IMHO, one of the reasons hams are not embracing packet as much as we use  
> to is throughput. Since the data we want to send has been growing is size  
> as the years has gone by, 1200 to 9600 baud on VHF+ is not a very  
> proficient method of sending data. <snip>

Good post. BUT I dont know about everyone else, but I am suffereing from  
DATA OVERLOAD. My MIND cannot possibly absorb megabyutes of data. In  
fact, I can barely read at a 1200 baud rate. I dont need HIGHER data  
rates. I can suck that up all day long on the internet. What I need is a  
line or two of PERTINENT data on demand via my HAM radio.

1200 baud or 9600 baud can do that very nicely on my existing radio...  
In under a second.

I am not at all opposed to higher bandwidths nor lots of data. But there  
is so much we can do with what we have... TWP's for example  
(TINY-WEB-PAGES) on your radio front panel... (see previous message)...

de WB4APR, Bob

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#### 419. [aprssig] APRS SCHEDULE

From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
Date: Thu, 8 Jun 2000 11:08:00 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-89565-2000.06.08-10.11.30--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-89565-2000.06.08-10.11.30--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Here is the format I used to use...

NOTE!!!! THIS IS LAST YEARS DATA!!! THIS IS NOT A CURRENT CALENDAR!

-----  
Here is an updated brief summary of upcoming communication/tracking  
events. Please let us know of any events that others might find  
interesting even if local.

16 Jun AMSAT NET @ 2100 EDT on GE1, 5.7 MHz. APRS CheckIn w WD5DZC  
16 Jun 3 days KC7NFZ hiking in Denali AK. WOrking AO27 and APRS via MIR  
19 Jun Kids Day. 1400-1000 EDT. APRS everywhere; voice on 14270,28350.  
19 Jun Saturday. PG County, MD Y2K Drill 1300-1600 EDT  
19 Jun Kansas Near Space APRS Balloon Launch  
19 Jun APRS Seminar at Milford OH Hamfest at 0930 EDT  
20 Jun Sunday. SUNrayce Wash DC to Florida. APRS?  
23 Jun Tuesday AMSAT NET @ 2100 EDT on GE1, 5.7 MHz. APRS Ck-In w WD5DZC  
26 Jun FIELD DAY! TAPR TECHNOLOGY DAY! APRS, AO-27 Everywhere  
27 Jun FIELD DAY! TAPR TECHNOLOGY DAY! APRS, AO-27 Everywhere  
25 Jun to 5 Jul KK5YY AO27 and mobile APRS in Alaska  
2 Jul to 5 Jul Circus Train Baraboo to Milwaukee WI SSB on 40, 20, 15.  
11 Jul 1800 UTC APRS talk in South Africa via Landline/ voice nets  
20 Jul STS-93 SAREX with packet (APRS?)  
21 Jul NASA Goddard ARC meeting on APRS Mic-Encoders and Mic-Lite.  
?? Aug SIMSAT Launch. APRS Balloon in Wash DC area  
6 Oct to 10 Oct Big Bear to Mamouth Mtn 365 mi Bike race in So CALIF

de WB4APR, Bob

CAUTION!!!! ALL OF THE ABOVE IS OLD LAST YEARS DATA!!!!!!!!!!

Provided just to show the format, and solicit someone to be a volunteer to  
maintain this calandar...

bob

---  
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-----End of Unsent Message

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**420. [aprssig] Re: Going Digital.. Ham Radio?**  
You are currently subscribed to aprssig as: lyris.aprssig@tapr.org  
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org  
From: "Guy Story" <gstory@iphase.com>  
Date: Thu, 8 Jun 2000 10:16:27 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: <amsat-bb@amsat.org>  
Message-ID: <LYR842-89568-2000.06.08-10.20.37--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bob, I see your point. The point I was trying to make is more along the lines of improving usage. Your post about TWP's achieves this but in a different route. I like the TWP concept. It shows how an improvement can be made on bandwidth usage while employing existing gear. This is another method of improving technology.

Bob wrote:

Good post. BUT I dont know about everyone else, but I am suffereing from DATA OVERLOAD. My MIND cannot possibly absorb megabyutes of data. In fact, I can barely read at a 1200 baud rate. I dont need HIGHER data rates. I can suck that up all day long on the internet. What I need is a line or two of PERTINENT data on demand via my HAM radio.

1200 baud or 9600 baud can do that very nicely on my existing radio...  
In under a second.

I am not at all opposed to higher bandwidths nor lots of data. But there is so much we can do with what we have... TWP's for example (TINY-WEB-PAGES) on your radio front panel... (see previous message)...

---  
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## 421. [aprssig] Calling VE6DJJ

From: Ian Wade <Ian.Wade@care4free.net>  
Date: Thu, 8 Jun 2000 16:17:57 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89570-2000.06.08-10.21.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Calling VE6DJJ. Could you email me direct please (g3nrw@arrl.net).

Thanks.

73  
Ian, G3NRW  
Technical Editor, APRS Protocol Specification  
\*\*\*\*\* Third draft now available \*\*\*\*\*

--  
+-----+  
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |  
| email: g3nrw@arrl.net |  
| |  
| APRS PROTOCOL SPEC: <http://www.tapr.org/tapr/html/Faprswg.html> |  
| APRS DECODER: <http://www.netro.co.uk/aprs.htm> |



+-----+

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## 422. [aprssig] Re: Installation of equipment (2nd car battery)

From: aa8ei@eos.net  
Date: Thu, 8 Jun 2000 11:37:56 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89573-2000.06.08-10.44.32--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

1. Please don't just 'reply' but edit so all the unnecessary stuff is removed.
2. NAPA now sells the Optima battery as a "NAPA Spiral" battery (at least in here in Cincinnati) which should make it a whole lot easier to get and replace nationwide.
3. Got no pricing data, but saw ad while picking up other parts.

73, Tony

Powerwerx wrote on 6/7/00 [aprssig] Re: Installation of equipment (2nd car battery)  
>Batteries:  
>  
>Another product that you should check out is the Optima Battery:  
>  
><http://www.optimabatteries.com/main.htm>  
>

---

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## 423. [aprssig] Web server

From: Ray Vaughan <ray@rayvaughan.com>  
Date: Thu, 08 Jun 2000 12:27:58 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89575-2000.06.08-11.31.06--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Has anyone been able to see a station list on the web server built into WinAPRS v2.4.6? On mine, the call sign finder works, but it never shows data when I try to get a list. Has anyone been able to get a list to show?

Here's mine if you want to see what it looks like:

<http://kd4bbm.dyndns.org:81/>

Thanks.

Ray J. Vaughan, MS, CBTE, CERT  
KD4BBM PG-7-15266  
ray@rayvaughan.com  
ray@2-way.com  
<http://www.rayvaughan.com/>

---

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---

## 424. [aprssig] Re: Going Digital... Ham Radio?

From: mulveyr@iname.com  
Date: Thu, 8 Jun 2000 12:47:50 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89577-2000.06.08-11.53.03--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> Added value? Because it's there? Maybe. Innovation is the benefit.  
>

20 years ago, packet radio was radically innovative - it allowed hams to e-mail, send bulletins, provide error-free message handling, etc, and by using station equipment that they already owned ( with the exception of a TNC + terminal, which was still cheaper than the

RF deck.

But when the Internet became publically available, packet lost its value almost overnight, because hams could get faster/better/cheaper performance with the equipment they owned - several orders of magnitude better, in fact.

From what I've seen, packet is still alive is where a few die-hard users continue to make the system work. Their efforts are based in large part on the personal satisfaction they get from playing with the technology. But this also illustrates that the technologists are not capable of achieving the critical mass necessary to build and maintain a complex, wide-scale network by themselves.

If you want the "average" ham to lay out several hundred dollars - or more - for essentially single-use equipment, then you had better be able to show him that the benefits he receives from that purchase are not available elsewhere. You can purchase 1MB+/sec Part 15 equipment for less than \$200. And yet the vast majority of hams don't use it, because the fast systems don't give them anything that can't get better and cheaper, elsewhere.

APRS has succeeded, I believe, because there was still a critical mass of hams who had dusty TNC's laying around in their closets, along with 2M radios, that could be put to good use. GPS's were just starting to become consumer-class items, so the merging of the technology was fairly easy for a ham to swallow. APRS also provided functionality that was not available elsewhere, for any price. Thus, it has thrived.

Quite frankly, I wonder if APRS would have the same impact, if it just came out today. Would all of those dusty TNC's still be sitting around, waiting for a new use?

> And... WE \*NEED\* TO BUILD A NEW NETWORK!! (sorry for shouting, but it's  
> a burning bush issue for me right now)... The APRS network is  
> overloaded and suffering from feeeping creaturism. If we can't get Bob  
>

Well, if you build it - and prove to them why they need it - they will come.

Otherwise, well, just ask Iridium what happens when you build a system because it's neat, but not needed.

To a certain extent, I'm playing devil's advocate here. I love playing with technology, and finding out new things to do with it. However, I also realize that most hams are not in that category, and that a large number of hams are necessary to build a large infrastructure like a network.

- Rich

---

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## 425. [aprssig] Regarding APRS- CE program

From: "Rob Wittner" <[rmw@rwa-inc.com](mailto:rmw@rwa-inc.com)>  
Date: Thu, 8 Jun 2000 14:02:04 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-89584-2000.06.08-13.04.07--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-89584-2000.06.08-13.04.07--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Does anyone know if there are any Win/Mac/dos/pocketAPRS maps for Europe and Denmark available. Respond here or to me directly. Thanks.

73

-Rob  
KZ5RW

> -----Original Message-----  
> From: Jan Hynneke  
>

> Hello Rob.  
>  
> Thanks for a nice piece of software. Looks very prof. but i need Maps. for  
> Europe and Denmark.  
> How do i get these. I use gif images on my PC based UI-view. Can i convert  
> these to  
> ARS-CE and what library folder do the APRS-ce program expect to  
> locate these  
> maps?  
>  
> Best regards  
> Jan Hynneke  
> OZ9ABC

---

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---

## 426. [aprssig] Re: Going Digital... Ham Radio?

From: Bill Vodall <wa7nwp@bigsky.com>  
Date: Thu, 8 Jun 2000 11:22:33 -0700 (PDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89587-2000.06.08-13.26.00--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> > IMHO, one of the reasons hams are not embracing packet as much as we use  
> > to is throughput. Since the data we want to send has been growing is size  
> > as the years has gone by, 1200 to 9600 baud on VHF+ is not a very  
> > proficient method of sending data. <snip>  
>  
> ...  
>  
> 1200 baud or 9600 baud can do that very nicely on my existing radio...

The problem is still the software and the network, not the raw data rate.  
A mere 1200 baud can do very nicely.

1200 baud for 24 hours is 28,800 (baudies?).

A 28.8K modem online for 1 hour is the same 28,800.

The 1200 baud channel can feed a large number of users. The  
modem is serving one user and tying up the phone line. Hmmm, I  
see now why the big communications companies are so hot for  
wireless data delivery..

With new smarter networks and new smarter software,  
even boring old simple inefficient 1200 baud can be  
pretty impressive...

> I am not at all opposed to higher bandwidths nor lots of data. But there  
> is so much we can do with what we have... TWP's for example  
> (TINY-WEB-PAGES) on your radio front panel... (see previous message)...

Now if only Kenwood could somehow open up their radios so we  
could actually program them - then we'd have something way cool!

>  
> de WB4APR, Bob  
>

Bill, WA7NWP

---

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---

## 427. [aprssig] New to list, Have a few questions

From: "Shawn Mc Clintock" <kd6oji@freewwwweb.com>  
Date: Thu, 8 Jun 2000 13:31:56 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89589-2000.06.08-13.34.36--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Howdy everyone,  
I would like to know, has anyone succesfully mixed WinAPRS or UI-View with

AGWPE? I would like to keep the hardware in the mobile to an absolute minimum if at all possible. A TNC would add to the overall component count. I already have AGWPE installed and working for cluster services, but have not been successful in getting WinAPRS to work with it. Do I need to install a different module that I am unaware of?

Also, I am planning on purchasing the Sony Skymap 2000 w/ PCMCIA GPS RX unit system shortly. Would I be able to scrounge off the data stream for that for use with APRS? The reasoning for this is two-fold, first I would have realtime mapping available while mobile, and while watching storms is not the time to be fumbling with maps or keyboards. Second, it would allow the Net Control Stn. to be updated as to my position. This seems to make a great deal of sense to me anyway.

Again, Hello to all, Hope I can learn something from this, as well as share what I know.

Shawn  
KD6OJI

---

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---

## 428. [aprssig] Re: Virginia Special Olympics Torch Run

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Thu, 8 Jun 2000 10:26:29 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89548-2000.06.08-09.29.31--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

We need an APRSSIG volunteer to watch for these types of messages and maintain a revolving APRS CALENDAR that is posted once a week on THursdays. This calendar summarizes ALL such APRS events in ONE-LINE brief format. Thus, going into a weekend, we all know what to watch for. We used to do this, but now we need another volunteer... In my NEXT message, I will post the format that we used to use....

de WB4APR, Bob

On  
Thu, 8 Jun 2000 N4QWF@aol.com wrote:

> The Lynchburg Amateur Radio Club is supporting the Torch Run from Lynchburg  
> to Charlottesville, Va. 6/8/00. The support vehicle is equipped with a Pico  
> packet GPS and Radio. The Icon will be a Red "X" with the object name of  
> VASO. Have fun tracking. 73's << John  
>  
> ---  
> You are currently subscribed to aprssig as: bruninga@nadn.navy.mil  
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>  
>

APRSDos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org  
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060  
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>  
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>  
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

---

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---

## 429. [aprssig] RE: PMAP 40 and 2.4.7

From: "Jim Gill" <gillj@uswest.net>  
Date: Thu, 8 Jun 2000 14:08:34 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: <aprssig@tapr.org>  
Message-ID: <LYR842-89594-2000.06.08-14.15.35--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

----- Original Message -----

From: "Bill Diaz" <billdiaz@megsinet.net>  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Sent: Thursday, June 08, 2000 1:31 AM

Subject: [aprssig] RE: PMAP 4.0 and 2.4.7  
> I don't think 2.4.7 supports PMap 4.0 map data.  
> Chicago Map called me today and asked if WinAprs was using Pmap 4.0 mapping  
> data. It seems that they had several calls from hams who wanted to purchase  
> Pmap 4.0 for use with WinAprs 2.4.7.

Bill, this message may be what is causing people to think that 2.4.7 (or the second 2.4.6 release) with PM4 should work. What I see is that it is a work in progress; and Mark was simply restoring older PM compatibility that was broken in the development work, while not confirming the PM4 work was finished.

Jim NØRMO

----- Original Message -----

From: "Mark Sproul" <kb2ici@amsat.org>  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Sent: Thursday, June 01, 2000 12:36 PM  
Subject: [aprssig] Re: WinAPRS 2.4.6 released

> It has been brought to my attention that in my work to incorporate  
> Precision Mapping 4.0, WinAPRS 2.4.6 does not support the older PM. If  
you  
> use PM, please do not download 2.4.6, a new version will be posted  
> tomorrow.  
> Thanks  
> Mark Sproul

---

> Mark Sproul |  
> Software Engineer @ Assoc Press | Work: 609-860-7120  
> msproul@apmail.ap.org | Fax: 609-860-7129  
> kb2ici@amsat.org (either is OK) |

---

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#### 430. [aprssig] Need help w/PicoPacket TNC

From: Robert Stessel <stessel@maine.edu>  
Date: Thu, 08 Jun 2000 19:09:51 +0000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89600-2000.06.08-14.35.15--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Aquired a PicoPacket, no manual & RS-232 plug cut.

Didn't find info on Pico web site,  
found lots of sites w/THC to radio connections, but not the RS-232 connector.

Anyone got a Pico manual who could help me out?

respond direct to stessel@maine.edu. Thanks.

K1WXY - "Stes" - Robert Stessel, 19 Main St., Milford ME 04461 - 207-827-8733  
U.Maine - Orono - Oceanography - stessel@maine.edu - 207-581-4393  
U.Maine ARC Repeater W1YA 145.47(-)

---

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#### 431. [aprssig] UHF 9k6 baud APRS

From: "Lumpy" <lumpy@digitalcartography.com>  
Date: Thu, 8 Jun 2000 15:49:37 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89601-2000.06.08-14.50.55--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I know it's been discussed before.

I know there's never been a definite  
answer (I think).

What's the current thoughts, please?

If I want to experiment with 9600 on  
UHF, what freq?

Lumpy n0eq

---

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---

## 432. [aprssig] Re: Going Digital... Ham Radio?

From: Ray Vaughan <ray@rayvaughan.com>  
Date: Thu, 08 Jun 2000 15:50:01 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89602-2000.06.08-14.53.17--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>The 1200 baud channel can feed a large number of users. The  
>modem is serving one user and tying up the phone line. Hmmm, I  
>see now why the big communications companies are so hot for  
>wireless data delivery..

Minor point... baud is not always equal to bps. bps is what we need. If we can do it with less than  
that baud, all the better. Think of baud as discreet states on the medium... eg high tone or low tone.  
But what if we had:

high freq tone at low volume,  
high freq tone at high volume,  
low freq tone at low volume  
low freq tone at high volume.

Now there are 4 states the medium could be in at any given time. Now that one moment in time could be:

00  
01  
10  
11

So two bits could be sent with just one baud. Now you can see how land line modems can such high bps  
with the limited frequency response of a phone line. There's many different frequency tones and many  
different amplitude levels.

>With new smarter networks and new smarter software,  
>even boring old simple inefficient 1200 baud can be  
>pretty impressive...

Here's what it's going to take... someone with a LOT of knowledge of TCP/IP will need to find a  
reasonable way to do TCP/IP multicast over 1200 bps packet. A sever in each city will send out  
packets for all to hear in a constant stream. If a packet is missed, then:

- The station could request a resend on a different channel (duplex)
- Or just wait til it comes around again.

Huge files can be file broadcasted on low bandwidth channels. It's just a matter of making sure that  
either there's another way to get resends (like another channel) or everyone has to accept that a less  
than perfect signal will result in lost data. Just going to a full time, never unkeys, transmitter  
would do wonders for throughput. No collisions, no tx or rx delays...

I've wanted to do a 9600 bps feed of the APRS servers on a new 440 frequency. I think it's doable, but  
I don't have the time to bring it all together. It would work on sort of the same idea... if you get  
all the data, you get it. Otherwise, wait for the station to beacon again next time.

---

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## 433. [aprssig] Re: UHF 9k6 baud APRS

From: Jeff King <jeff@aerodata.net>  
Date: Thu, 08 Jun 2000 16:02:02 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89603-2000.06.08-15.03.03--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Lumpy:

Go with a default.

The \$125 TEKK 9600bps UHF radio comes with a default crystal of 441.05mhz. We even got this coordinated in Michigan for 9600bps operation because of this.

Its a real dataradio with 8ms turnaround time.

-Jeff

Lumpy wrote:

```
> I know it's been discussed before.
>
> I know there's never been a definite
> answer (I think).
>
> What's the current thoughts, please?
>
> If I want to experiment with 9600 on
> UHF, what freq?
>
> Lumpy n0eq
>
> ---
> You are currently subscribed to aprssig as: jeff@aerodata.net
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
```

---

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#### 434. [aprssig] Re: Need help w/PicoPacket TNC

From: David VanHorn <dvanhorn@cedar.net>  
Date: Thu, 08 Jun 2000 15:11:01 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89605-2000.06.08-15.15.19--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----  
Hash: SHA1

232 left to right

CTS (out)  
RXD (in)  
TXD (out)  
RTS (in)  
Ground  
N/C or DCD (out)

Audio Left to right:

Resistive PTT  
Transmit audio  
Ground  
Normal PTT  
Receive audio  
No connection.

If you have the second serial, the sleeve is ground, ring is data into pico, tip is data out of pico.

VR3 is your transmit audio level.  
VR1 is modem bias (there's a procedure)  
VR2 is carrier detect level

JPRA open for high Z audio in, closed for speaker.

- - -

Are you an ISP? Tired of spam?  
[www.spamwhack.com](http://www.spamwhack.com) A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----  
Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUB0UAZ9Yf1GDz116VWEQKd+wCfYeu5upX85cevonBuyKl6qY0g7rYAnRmZ  
2EtjeBT1u4La7CN9IdsnU93q  
=IhV2  
-----END PGP SIGNATURE-----

---

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#### 435. [aprssig] Re: Going Digital... Ham Radio?

From: "Guy Story" <gstory@ipphase.com>  
Date: Thu, 8 Jun 2000 15:31:11 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89608-2000.06.08-15.34.21--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I agree with what Ray has stated. He brings up a point I neglected to mention. For most of us it is a given fact that higher baud rates resulting in higher frequency tones being used. This is what has created a problem with using existing radios. If manipulating tone volumes in addition to the frequency is viable, that would be great. The only issue I can see with that method is the importance of correctly setting up the calibration on the tones becomes even more critical. But then again, all of us have calibrated the tone quality on our tcns, right??? I say right???

Guy Story  
KC5G0I

Ray Vaughan wrote:

Minor point... baud is not always equal to bps. bps is what we need. If we can do it with less than that baud, all the better. Think of baud as discrete states on the medium... eg high tone or low tone. But what if we had:

high freq tone at low volume,  
high freq tone at high volume,  
low freq tone at low volume  
low freq tone at high volume.

Now there are 4 states the medium could be in at any given time. Now that one moment in time could be:

00  
01  
10  
11

So two bits could be sent with just one baud. Now you can see how land line modems can such high bps with the limited frequency response of a phone line. There's many different frequency tones and many different amplitude levels.

---

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#### 436. [aprssig] Re: Going Digital... Ham Radio?

From: Earl Needham <kd5xb@amsat.org>  
Date: Thu, 08 Jun 2000 08:48:25 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89609-2000.06.08-15.39.30--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 08:45 AM 6/8/00 -0400, Bob Bruninga wrote:

>On Wed, 7 Jun 2000, Earl Needham wrote:

>

> >

> I'd like to see a way to speak into a microphone, have the result  
> sent via a TNC (or similar), through digis, just like regular packet,  
> EXCEPT THAT THE AUDIO COULD BE UNDERSTOOD BY HUMAN EARS!

>

>That capability exists (sort-of) with the VOICE option chip (\$39) for the  
>Kenwood D700. Just type in your message and it will be spoken/spelled by



>the voice in the radio. Spelled most likely, but there are many words  
>built into the syntehsizer and many short messages can be communicated in  
>geekspeek. Like I C U, etc...

No, no -- I mean so that the actual signal off the air could be understood!

It seems to me that it shouldn't be that hard to make a TNC (or something) send a string of ASCII characters that sound something like a voice and could be digipeated down the line...

Earl

---

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#### 437. [aprssig] What is wrong with this String?

From: "Brian B. Riley" <brianbr@macconnect.com>  
Date: Thu, 8 Jun 2000 17:24:44 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89615-2000.06.08-16.27.46--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

When I changed things over for my callsign and the weather station the other day I put in this string and it will not get parsed by map.aprs.net nor map.findu.com. But my D700 loves it! So what have I done wrong?

BTEXT !4431.73NN07251.55W#PHG5766 Digi/Weather (n1bq@wulfden.org)

--

Brian B. Riley, N1BQ (ex-KA2BQE)  
<<http://www.wulfden.org>>

---

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#### 438. [aprssig] Re: UHF 9k6 baud APRS

From: Jeff King <jeff@aerodata.net>  
Date: Thu, 08 Jun 2000 17:33:41 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89618-2000.06.08-16.34.42--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Lumpy:

<http://www.multicom2way.com/tekk-ks960.htm>

has them. I was wrong on the price, they are \$129.95.

That's the best price I could find on them.

Now, on the 441.05, I was not suggesting that be a APRS frequency, just suggesting for the lack on any real input, might was well chose the one that the cheapest (and best) 9600bps radio is already rocked up for. All the other "9600bps" radios that I am aware of for hams are synthesized, so it won't be a issue for them.

-Jeff

Lumpy wrote:

> JK also wrote:  
> > The \$125 TEKK 9600bps UHF radio...  
>  
> Paccom has them for I think \$169.  
> Do you know other sources?  
>  
> tnx - lump

---

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---

#### 439. [aprssig] aprs mobile tomorrow

From: [Kd4emi@aol.com](mailto:Kd4emi@aol.com)  
Date: Thu, 8 Jun 2000 18:12:26 EDT  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-89622-2000.06.08-17.15.40--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I will be running aprs mobile tomorrow from 7am to 3:30 pm. If you happen to be on the internet feed and want to say hello, I am looking for contacts so I can shake down my set up for upcoming road trip. Look for the car in south florida.

I have the jotto stand, a laptop etc and would like to see how it works when riding. I will also be playing with the different APRS versions for windows

Mike  
KD4EMI@AOL.COM

---

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#### 440. [aprssig] Re: What is wrong with this String?

From: Robbie Robertson <[mwrobertson@mediaone.net](mailto:mwrobertson@mediaone.net)>  
Date: Thu, 08 Jun 2000 17:19:43 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-89623-2000.06.08-17.21.43--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

"Brian B. Riley" wrote:

>  
> When I changed things over for my callsign and the weather station the  
> other day I put in this string and it will not get parsed by  
> map.aprs.net nor map.findu.com. But my D700 loves it! So what have I  
> done wrong?  
>  
> BTEXT !4431.73NN07251.55W#PHG5766 Digi/Weather (n1bq#wulfden.org)

--

What is this NN for??

Robbie

>  
> --  
> Brian B. Riley, N1BQ (ex-KA2BQE)  
> <<http://www.wulfden.org>>  
>  
> ---  
> You are currently subscribed to aprssig as: [mwrobertson@mediaone.net](mailto:mwrobertson@mediaone.net)  
> To unsubscribe send a blank email to [leave-aprssig-842K@lists.tapr.org](mailto:leave-aprssig-842K@lists.tapr.org)

--

-----  
Are we having fun yet?  
73 - Robbie - WA9INF  
\*\*\*\*\* --... -- \*\*\*\*\*

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#### 441. [aprssig] APRS Etiquette

From: "Joel B. Black" <[jbblack@mindspring.com](mailto:jbblack@mindspring.com)>  
Date: Thu, 8 Jun 2000 17:49:45 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-89625-2000.06.08-17.53.08--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Is it proper APRS Etiquette to run high power (i.e. >100W) if you cannot find a suitable site for your digi? I ask because the site I had picked already had the feedline run. All I had to do was put an antenna at the top of the tower (HAAT 200') and plug in the radio. Well, upon inspection, the feedline was bad in several places (read bent) and there was a lot of

corrosion in the connector at the top. In effect, I have gone from a 200' HAAT to about 50' HAAT. This is a problem that I have no way of overcoming without someone donating about 300' of 7/8" hardline.

My question to the SIG is, without another WIDE digi within 50 miles and being at 50' HAAT, is it ok to run high power for a digi? I know that one of the concepts is to keep power as low as possible. I'm at 50W now and cannot get to the nearest digi until the sun goes down. If APRS were run on 70cm, there wouldn't be a problem. I have numerous sites with 450MHz antennas (db420's) that would serve wonderfully as WIDE digi's, but, alas, we are not at 440 yet with APRS.

Thanks,

Joel B. Black, K2SAT  
AMSAT.....32589  
AMSAT Local Area Coordinator  
k2sat@amsat.org  
<http://www.mindspring.com/~jbbblack>  
AO-10, AO-27, FO-20, FO-29, SO-35, UO-14  
TO-31, UO-22, UO-36

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---

## 442. [aprssig] Re: APRS Etiquette

From: Jeff King <[jeff@aerodata.net](mailto:jeff@aerodata.net)>  
Date: Thu, 08 Jun 2000 19:03:21 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-89626-2000.06.08-18.04.24--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Our first major digipeater site in the Detroit area (about 1985) was on a 1000 foot tower on 145.01mhz.. The antenna was fed with 6 inch copper feedline and was side mounted at the 950 foot level. Sounds good, huh? But the kicker here was it cost us nothing. The antenna was the spare antenna for the TV station at the site, which I happed to work for. UHF channel 50, which worked out to be about 700mhz.

Point being, just about anything will radiate, and in my case, even though the SWR was about 15:1 enough power did make it to the antenna. I made up a matching unit to make the radio happy. Range was south to toledo, east to London Ont, which was about a 40 mile range solid.

So, try that existing 440 antenna with your two meter rig, you might be suprised at the range you can get if it has decent feedline and is at any height.

Good luck

-Jeff

"Joel B. Black" wrote:

> Is it proper APRS Etiquette to run high power (i.e. >100W) if you cannot  
> find a suitable site for your digi? I ask because the site I had picked  
> already had the feedline run. All I had to do was put an antenna at the top  
> of the tower (HAAT 200') and plug in the radio. Well, upon inspection,  
> the feedline was bad in several places (read bent) and there was a lot of  
> corrosion in the connector at the top. In effect, I have gone from a 200'  
> HAAT to about 50' HAAT. This is a problem that I have no way of overcoming  
> without someone donating about 300' of 7/8" hardline.  
>  
> My question to the SIG is, without another WIDE digi within 50 miles and  
> being at 50' HAAT, is it ok to run high power for a digi? I know that one  
> of the concepts is to keep power as low as possible. I'm at 50W now and  
> cannot get to the nearest digi until the sun goes down. If APRS were run on  
> 70cm, there wouldn't be a problem. I have numerous sites with 450MHz  
> antennas (db420's) that would serve wonderfully as WIDE digi's, but, alas,  
> we are not at 440 yet with APRS.  
>  
> Thanks,  
>

> Joel B. Black, K2SAT  
> AMSAT.....32589  
> AMSAT Local Area Coordinator  
> k2sat@amsat.org  
> http://www.mindspring.com/~jbbblack  
> AO-10, AO-27, FO-20, FO-29, SO-35, UO-14  
> TO-31, UO-22, UO-36  
>  
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> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

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You are currently subscribed to aprssig as: lyris.aprssig@tapr.org  
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#### 443. [aprssig] Re: What is wrong with this String?

From: rbost@itexas.net (Roy Bost)  
Date: Thu, 8 Jun 2000 18:03:34 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89627-2000.06.08-18.06.47--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The second "N" is what puts the "N" into the green digi star to indicate a WIDEn-N digipeater.

Roy Bost N5TAM  
rbost@itexas.net

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#### 444. [aprssig] Re: Solar Flare

From: "Dale Huguley" <kg5qd@worldnet.att.net>  
Date: Thu, 8 Jun 2000 23:23:43 -0000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89630-2000.06.08-18.28.08--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bob and all-

At the end of the solar indicies packet that comes out every hour (about 36 after) is the energetic particle count at geosync orbit altitude such as:  
Ep329C184A273bEe713B645A

which translates to

<snip> (from the Space Environment Center bulletin)  
:Energetic\_Particle\_Flux: 2000 Jun 08 1825 UT

#

# Current Readings

| # | GOES-8 Proton Flux           | GOES-8 Electron Flux  |
|---|------------------------------|-----------------------|
| # | ----- Protons/cm2-s-sr ----- | -Electrons/cm2-s-sr - |
| # | >1 MeV >10 MeV >100 MeV      | >0.6 MeV >2 MeV       |
| # | 3.29e+03 1.84e+01 2.73e-02   | 7.13e+02 6.45e+01     |

#

Keith Sproul was going to plot these at one time- anyway they are still there is a not so human readable form.

the first of the packet has the more familiar flux- and k indices  
SECIND>APRS:NWS-SOLAR:Flx175 A028 BoK333555.PlNk344776..

BoK = Boulder K index

PlNk = Planetary K index

with each number representing a three hour period starting at 0000z

Flux is missing most of the time - but an "A" index of 28 and a Planetary K index of 7 are bad conditions Indeed!

for definitions etc. try  
<http://sec.noaa.gov>

should be interesting next 24 hours

73 de kg5qd Dale

>On Tuesday (I think) there was a massive Solar Flare that ejected billions  
>of tons of particles towards earth. Expected arrival is today and

>tomorrow. We are already seeing its effects. Our APRS HF freq is dead as  
>well as the Navy APRS freq we use for tracking Naval Academy boats.  
>  
>I wonder what effects we will notice from the amsat birds....  
>  
>de WB4APR, Bob

---

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#### 445. [aprssig] Va Demo

From: "Darrell Sutton" <dsutton@visi.net>  
Date: Thu, 8 Jun 2000 19:46:49 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89631-2000.06.08-18.49.40--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Sunday june 11 members of Eastern VA APRS group will be presenting a  
program on VA's Eastern Shore in Accomac County. We will be using N4EVA on  
Site please let us know if you see us. The demo will be near the Newly  
accured DiGi Site in the County.

We have most of the Equipment lined up and are finishing the final details  
on installation.. We look foward to Seeing our New APRS'ers up on the Shore.

73's  
Darrell Chairman EVA

KF4HJW-10 APRS DIGI TOANO VA  
PACKET ADDRESS  
KF4HJW@KF4HJW.#TIDE.VA.US.NOAM  
WWW.QSL.NET/KF4HJW  
VISIT [www.qsl.net/eva](http://www.qsl.net/eva) Eastern VA APRS Group  
SIGN UP FOR VA AREA APRS NEWS  
Subscribe: N4EVA-subscribe@egroups.com  
VISIT [WWW.ARESVA.ORG](http://WWW.ARESVA.ORG) FOR THE LATEST ARES/RACES NEWS

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#### 446. [aprssig] Re: UHF 9k6 baud APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Thu, 8 Jun 2000 19:52:47 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89633-2000.06.08-18.56.05--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Thu, 8 Jun 2000, Jeff King wrote:

> The \$125 TEKK 9600bps UHF radio comes with a default crystal of  
> 441.05mhz. We even got this coordinated in Michigan for 9600bps  
> operation because of this.

Now THAT sounds like a good answer! Lets see who complains...?

Bob

---

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#### 447. [aprssig] RE: 2nd Battery

From: Alan Heaberlin <amh@as.net>  
Date: Thu, 8 Jun 2000 07:15:23 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89634-2000.06.08-19.02.39--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Many Ford products (and Aerostar I believe) have a combined washer  
bottle/radiator overflow bottle mounted on the left fender well. This is

the ideal position for a second battery. You will have to find an alternative overflow bottle (aftermarket type works fine) and another washer bottle (many sizes and shapes at the local wrecking yard). Buy a good isolator...the cheap ones will let you down.  
Alan Heaberlin W6AMH

```
>
> -----
>
> Subject: Re: Installation of equipment (2nd car battery)
> From: "Rich" <n0rul@kscable.com>
> Date: Wed, 7 Jun 2000 15:53:07 -0500
> X-Message-Number: 22
>
> KD4YDC & the group,
> You didn't mention where you wanted to mount the second battery but
> sometimes space is difficult to find under the hood. If you are
considering
> installation of a second battery then consider what I found last year.
> Everyone I checked with said to mount it under the hood away from the
> passenger compartment to reduce the risk of battery acid spraying onto
> passengers during an accident along with a list of fire and other safety
> concerns cited by almost everyone I talked to. NASCAR folks suggest any
> battery box placed within the passenger compartment of a vehicle be
> completely sealed of 1/4 inch thick aluminum and firmly mounted. Metal
> battery boxes that meet the NASCAR regs can be ordered from auto part
stores
> but appear expensive for what they are.
> I wanted easy access to my second battery and was concerned about not
> venting such battery so I opted to install a smaller than desired second
> battery into available space under the hood of my sedan using an
isolation
> wiring harness that is built for many different car models which Pepboys
or
> your local auto store sells.
> Not sure how much space is under the hood of your Aerostar- but size a
> deep cycle marine battery to fit some empty open space under your hood
and
> use an isolation kit from the auto store to connect it to your
alternator.
> Good luck.
> 73 de Rich, n0rul
> mailto:n0rul@kscable.com
>
> ----- Original Message -----
> Subject: [aprssig] Installation of equipment
> ...
> > I am getting ready to move all my ham equipment (one vhf/uhf voice
radio
> > and one packet station) into a 1996 Ford Aerostar. Curious if anyone
has
> > this van and could shed some insight on your installation(s). I have
> > often toyed with the idea of putting in a second battery in my old van,
> > maybe the time to do it now. I have seen an installation of one local
> > APRSer that was wonderful! Not sure if I have the know how or skills
to
> > do that though (had some kind of insolation block for the second batt.
> ...
>
>
>
```

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#### 448. [aprssig] Re: Position rate

From: tarnerich@in-situ.com (Tony Arnerich)  
Date: Thu, 8 Jun 2000 18:01:38 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89635-2000.06.08-19.05.51--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Henk educated me on how flat his country is (no real hills), and Gary made some excellent points about flutter and fade due to multipath, etc.

It's from the difficult cases like Henk's where the best innovations in technique can arise. If things can be made to work there, they can be made to be better almost everywhere else.

What would be a very useful thing to have would be a (nearly) real-time indicator of a good RF path. Also, Henk's points about short transmissions is well taken. I wonder if a little can be borrowed from the meteor scatter technique, and a little (very little) from DAMA.

Let's say that a digipeater sends out very small packets, very often. The mobiles listen for these packets. If they can be decoded, an acceptable propagation path exists "by definition". If the mobile has data waiting in it's buffer, the decoded digipeater packet is the trigger to send it without delay. Since other mobiles are not necessarily likely to have waiting data AND have heard the same packet decode at the same time, there would not necessarily be a collision. The digipeater is sending out the equivalent of a clock signal in a digital circuit. On the large time scale the mobile trackers asynchronously generate data; they will be triggered by the digi "clock" pulses, but usually on different pulses.

Another thing I've been wondering about is the possibility of using of circular polarization at the digipeater. I have regularly attended an annual weekend-long musical event in which there was a 24 hour live radio transmission (3M FM broadcast band, "pirate" low power station), in a heavily forested location. I was pedestrian-mobile throughout the area with a portable radio. In the old days the signal quality was terrible, it would fade and get noisy all the time. Then one year they switched to a circular polarization antenna, but did not increase the power level by very much. The improvement in the signal was dramatic in that full quieting was far more common. The radio crew was flat-out convinced that the more significant improvement came from the change in polarization, not any power increase.

73 and thanks for the thoughts,

Tony

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#### 449. [aprssig] WinAPRS as a general web server

From: "Jim Gill" <gillj@uswest.net>  
Date: Thu, 8 Jun 2000 19:02:57 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89636-2000.06.08-19.09.11--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

WinAPRS can be used as a general web server directly from your computer, and not just for the the Positions pages and Documentation pages. Just rename the WAPRSdoc.htm file in the \docs folder to another name, and rename your main index page for your "local" website to waprdoc.htm. You may want to provide a link to the renamed documentation page.

See <http://jimgill.dynip.com:81/Docs/WAPRSdoc.htm> as an example. I am on an ISDN connection (64k at the moment, I am using the other channel for another project) using WinAPRS 2.4.7 as the web server. May not be available 24/7... check back later if unavailable. I use Dynip [www.dynip.com](http://www.dynip.com) for providing me a static DNS name in place of my dynamic IP address.

I am using a personal firewall, so be aware of security arrangements if you serve data from your machine to the Internet. Also, be aware of your bandwidth limitations, if applicable.

Jim Gill NØRMO  
Omaha, NE  
[jimgill@ix.netcom.com](mailto:jimgill@ix.netcom.com)

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#### 450. [aprssig] Re: Installation of equipment (2nd car battery)

From: Rick Gilligan <rick@case.net>  
Date: Thu, 8 Jun 2000 18:38:37 -0700 (PDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89640-2000.06.08-20.42.16--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

On Wed, 7 Jun 2000, Glenn Little wrote regarding an Optima battery:

> This battery DOES contain acid. Batteries generate electricity due to a  
> chemical reaction. Using lead-acid technology, tells the user that the  
> plates are lead and the electrolyte is acid. The acid in this battery is  
> in a gelled form rather than a liquid form.

Actually, they are not gel type electrolyte, they are AGM (absorbant glass mat) construction.

The thin fiberglass mat is soaked in acid, then wound with the lead plates. The acid generally won't separate from the mat, so they don't leak.

They can be mounted in any orientation.

There are also 6 volt models of the deep cycle, if you have room for two smaller batteries. Check their web site at [www.optimabatteries.com](http://www.optimabatteries.com).

I am quite satisfied with their products.

Use the proper deep cycle model. SLI (starting, lighting and ignition) batteries are NOT meant to be drawn down more than a few percent of capacity on any repeated basis.

You will also need to isolate the two batteries (either with a solid state method like diode isolation, or an electromechanical method like a solenoid (relay)). This is especially true, when using a deep cycle together with an SLI battery, as they have different full charge voltages. Do NOT simply parallel the batteries.

73  
Rick

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#### 451. [aprssig] aprs World Map

From: "k0pcg" <[k0pcg@CritelliLaw.com](mailto:k0pcg@CritelliLaw.com)>  
Date: Thu, 8 Jun 2000 21:05:05 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-89643-2000.06.08-21.07.55--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-89643-2000.06.08-21.07.55--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Anyone know where I can get a world map that will work with APRS. We are trying to get APRS to show the DX Packet Cluster spots.

Nick K0PCG

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#### 452. [aprssig] NEW SIG????

From: "Lee Dahlen" <[kd4tqz@qsl.net](mailto:kd4tqz@qsl.net)>  
Date: Thu, 8 Jun 2000 22:12:41 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: <[n4lbl@webaccess.net](mailto:n4lbl@webaccess.net)>  
Message-ID: <[LYR842-89644-2000.06.08-21.10.45--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-89644-2000.06.08-21.10.45--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Subject: Re: [amsat-bb] Going Digital... Ham Radio?  
From: Alan B Schulman <[n4lbl@webaccess.net](mailto:n4lbl@webaccess.net)>  
Date: Wed, 07 Jun 2000 17:01:43 -0600  
X-Message-Number: 32

Folks:

Let me throw up my ideas about this as a new guy on the block in the hope that perhaps my perspective is helpful.

< SNIP>



This gent has definitely done his homework!!! If you havent read his entire msg. please take the time.!!! I have often thought that we are leaving many "Newcomers behind" in the wake of all the technical advancements! ( I think I spoke on this a year ago and got blasted,) But I still feel that it may be appropriate to do either one of two things. Add a new SIG or redefine, One not as active. My proposal is:

Add a new sig for Newcomers. ( Actually this should be it, and add a technical adv. sig. Like maybe adding the T/A into the HTSIG's dialog, to promote, the advancement of the mode.??) But keep the dialog on the Newcomers SIG simple. ONE POINT ONLY: Its mission statement should be "Working together to get newcomers to the APRS world of Amateur radio." Then once they get past the basic stuff, they can "Promote themselves to a more advanced sig by either logging off this one to sign on another, or staying around to help others as well.

I know we are sig poor, but it was refreshing to see I was not alone in this thinking.

Ideas??? ( Not flames)

Lee/KD4TQZ

---

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#### 453. [aprssid] One more about PM 4 and 2.4.7

From: "Cal Davis, KF4LAR" <kf4lar@hiwaay.net>  
Date: Thu, 8 Jun 2000 21:8:54  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-89645-2000.06.08-21.11.59--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I posted a question yesterday and got several responses. Thanks for the help, but I am still (a little) confused.

Everyone gave me the information that 4.0 isn't supported but the Sproul's are working on it. I've been waiting like the rest of you, but the reason I thought 2.4.7 would work is that when you look at the OCX file that comes with 2.4.7 it lists the data files as being in directory "C:\Pmap 40\ etc ". That would (to me) suggest that 2.4.7 addresses the PM 4.0 problem, but the performance suggests otherwise.

Could it be that the Sproul's are just writing code ahead of a final solution? Or was this a first attempt that just accidentally failed?

While I writing this I got the idea to just edit the OCX file to read "Pmap30" and see if 2.4.7 will at least work with the 3.0 files I have.

Cal Davis, KF4LAR

---

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#### 454. [aprssid] Garmin E-Trex GPS

From: "BobD" <BobD@virtualconst.com>  
Date: Thu, 8 Jun 2000 22:36:45 -0400  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-89646-2000.06.08-21.38.21--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Anybody here on this list able to help this fellow (from the Hummer email list) out with some questions about the e-trex?

His email is;

Dave Taylor dave@taylorimaging.com

Thanks,  
Bob, N2IPH  
=====snip=====

Garmin E-Trex GPS

Dave

Taylor Imaging  
651 Boylston Street, 4th floor  
Boston, MA 02116  
<http://www.taylorimaging.com>

— — —

...Earl, N3EG

— — —

-Jeff

— — —

Page 266

#### 457. [aprssig] Trimble Placer 400

From: "PSCC" <pssc@one.net>  
Date: Thu, 8 Jun 2000 22:59:59 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89650-2000.06.08-22.03.13--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I thought I would report back about my post last week. I confirmed with Trimble that the Placer 400 will not do NMEA output. I owe Doug Bade here on the sig a big thank you for his assistance to the very end. Also thanks to Trimble for their quick response to my question. Now what to do with 3 new Placer 400's.....

73 from K9GPS Lee  
SE Indiana

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#### 458. [aprssig] Re: One more about PM 4 and 2.4.7

From: wo4u@juno.com  
Date: Thu, 8 Jun 2000 22:42:53 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: aprssig@lists.tapr.org  
Message-ID: <LYR842-89651-2000.06.08-22.03.53--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The Sprouls replied yesterday that they are still working on it. It does NOT work yet in spite of all the conflicting "user" reports.

Paul - W04U

On Thu, 8 Jun 2000 21:8:54 "Cal Davis, KF4LAR" <kf4lar@hiwaay.net> writes:  
> I posted a question yesterday and got several responses. Thanks for  
> the  
> help, but I am still (a little) confused.  
>  
> Everyone gave me the information that 4.0 isn't supported but the  
> Sproul's  
> are working on it. I've been waiting like the rest of you, but the  
> reason  
> I thought 2.4.7 would work is that when you look at the OCX file  
> that comes  
> with 2.4.7 it lists the data files as being in directory  
> "C:\Pmap 40\ etc ". That would (to me) suggest that 2.4.7 addresses  
> the PM  
> 4.0 problem, but the performance suggests otherwise.  
>  
> Could it be that the Sproul's are just writing code ahead of a final  
>  
> solution? Or was this a first attempt that just accidentally  
> failed?  
>  
> While I writing this I got the idea to just edit the OCX file to  
> read  
> "Pmap30" and see if 2.4.7 will at least work with the 3.0 files I  
> have.  
>  
> Cal Davis, KF4LAR  
>  
> ---  
> You are currently subscribed to aprssig as: W04U@JUNO.COM  
> To unsubscribe send a blank email to  
> leave-aprssig-842K@lists.tapr.org  
>

---

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<http://dl.www.juno.com/get/tagj>.

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#### 459. [aprssid] second battery

From: "JSN" <kc8ffv@k8sn.org>  
Date: Thu, 8 Jun 2000 23:06:08 -0400  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-89652-2000.06.08-22.07.39--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

As a person who runs alot of toys and who works at a hobby shop I have available to me 12v 7 amp (sealed, gel cell) batterys at a reasonable price. So I have purchased several of these batterys and made up some wire harnesses using the standard aprs plug (or just my standard the red and black thing) and velcroed those babys into a tool box cut a hole and ran a plug out the top.. The unit is not that heavy so it allows me to grab the unit and go.. I also take it inside to charge it. With the unit only running my tracker box it will probbally last about a month. I use it mainly for my radio that I leave on xband repeat all the time to make it into a local repeater on an ht (all the time and clean signal). As for the wiring in the truck I put a 3 positon switch in and made a nice switch box to change from car to external power with out ever loosing a connection. As soon as I can I will have pictures up on my web page.. Also As a second choice I bought a car battery and put it in a rubber maid box and mounted a charger in it and made up another harness.. My 4 gel cells last longer then the car battery and it is a heck of alot lighter. ( and smaller) but this is only what I did..

good luck and I would love to know what you or everyone else has done.

Jeff

---

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#### 460. [aprssid] Need D700 help

From: "Craig Brunson, N7TSZ" <brunson1@gte.net>  
Date: Thu, 08 Jun 2000 21:26:38 -0700  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-89658-2000.06.08-23.29.45--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I am using a Kenwood D700 radio with a GPS connected. The screen display works well in the TNC APRS mode, but I get nothing out of the rs-232 port. When I put the radio into DTNC PACKET mode, the data is fine on the rs-232 port, but the screen display does not update. Am I missing a setup to get both displays simultaneous? This is the only way I know to save tracks onto a PC for future playbacks and to use the D700s display capability.

My cable is ok as I use it to program the radio with the downloaded Kenwood program. I was monitoring the data port using Kermit when I found out you have to change to TNC PACKET to get anything out.

Also, when using the APRS display, when I key the second radio side to transmit voice, the display jumps back to the default screen. I have to press a series of buttons to get the display back. Even if I wait for the next APRS hit, it still takes two keystrokes to get the desired screen back. Can we lock the screen & still transmit on the other channel? This is important when you are driving & trying to track something.

Any help is greatly appreciated

73  
Craig, N7TSZ

---

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#### 461. [aprssig] Re: Installation of equipment (2nd car battery)

From: jlagreek <jlagreek@inlink.com>  
Date: Thu, 8 Jun 2000 23:29:04 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89659-2000.06.08-23.32.22--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

All batteries vent gas. If it is not possible to put the battery under the hood, you should think twice about the second battery. The battery other folks have been describing is better but it still vents some gas.

The isolator your friend has allows you to draw current from the second battery, but not your start battery. That way you can drain your second battery and still start your car. It also charges both batteries when the car is running. These can be purchased at most trailer / RV supply houses. The second battery is a must if you plan to run a lot of goodies with your car off.

Another source is your local car stereo shop. These folks driving around with 1000w worth of amps in their car have second batteries and isolators. Most are using 4ga wire to the amps. The installers may not know what your radio does, but they can give you all the 12v you need.

Last, for a PC in your car, take a look at the Citadel computers Scott is selling, runs on 12v and has APRS installed. Monitor / PC all in one unit

73 de N00TM  
Joe LaGreek  
ARES District Emergency Coordinator  
District C, Missouri Section

---

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#### 462. [aprssig] Re: aprs World Map

From: "James & Kathy Gutshall" <gutshall@freewwwweb.com>  
Date: Thu, 8 Jun 2000 23:29:52 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89679-2000.06.09-00.34.31--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I need a world map also!...

-----Original Message-----

From: k0pcg <k0pcg@CritelliLaw.com>  
To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Date: Thursday, June 08, 2000 8:06 PM  
Subject: [aprssig] aprs World Map

>Anyone know where I can get a world map that will work with APRS. We are  
>trying to get APRS to show the DX Packet Cluster spots.

>  
>Nick K0PCG

>  
>  
>---

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>

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#### 463. [aprssig] Re: What is wrong with this String?

From: Ian Wade <Ian.Wade@care4free.net>  
Date: Fri, 9 Jun 2000 05:48:27 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89682-2000.06.09-00.53.22--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In article <LYR14778-89615-2000.06.08-16.27.46--Ian.Wade#care4free.net@lists.tapr.org>, Brian B. Riley <brianbr@macconnect.com> writes

```
>When I changed things over for my callsign and the weather station the
>other day I put in this string and it will not get parsed by
>map.aprs.net nor map.findu.com. But my D700 loves it! So what have I
>done wrong?
>
>BTEXT      !4431.73NN07251.55W#PHG5766 Digi/Weather (n1bq@wulfden.org)
```

It looks pretty good to me (I added a path to make it look like a proper report):

```
=====
<<<< APRSdec >>>> The G3NRW APRS Packet Decoder
=====
Version 1.0.2c (8 June 2000)
by Ian Wade, G3NRW (g3nrw@arrl.net)

Input file   = brian.log
Output file  = brian.out
DOS Runtime  = 09 Jun 2000  5:39:24.99

NOTE: If this report contains anything that you think is incorrect,
      please email it to g3nrw@arrl.net for investigation. Thank you.
```

```
-----
Record #1
N1BQ*>APRS:!4431.73NN07251.55W#PHG5766 Digi/Weather (n1bq@wulfden.org)
APRS Data Type= Posit w/o time. No APRS
Lat= 44 deg 31.73 min N Long= 72 deg 51.55 min W
Icon= Star (green) Overlay= N
Power= 25 watts Height above average terrain= 1280 feet (390.1 meters)
Gain= 6 dB Range Circle= 75.6 miles (121.7 km) Directivity= West

+++++ END OF FILE +++++
```

```
-----
73
Ian, G3NRW
Technical Editor, APRS Protocol Specification
***** Third draft now available *****
```

```
--
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

```
---
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```

---

#### 464. [aprssi] Re: aprs World Map

```
From: Ian Wade <Ian.Wade@care4free.net>
Date: Fri, 9 Jun 2000 06:53:59 +0100
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>
Message-ID: <LYR842-89683-2000.06.09-00.58.41--lyris.aprssi@tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

```
In article <LYR14778-89679-2000.06.09-00.34.31--Ian.Wade@care4free.net@l
ists.tapr.org>, James & Kathy Gutshall <gutshall@freewwwweb.com> writes
>I need a world map also!...
```

```
>
>-----Original Message-----
>From: k0pcg <k0pcg@CritelliLaw.com>
>To: TAPR APRS Special Interest Group <aprssi@lists.tapr.org>
>Date: Thursday, June 08, 2000 8:06 PM
>Subject: [aprssi] aprs World Map
>
```

```
>>Anyone know where I can get a world map that will work with APRS. We are
>>trying to get APRS to show the DX Packet Cluster spots.
```

Take a look at UI-View. This will give you what you need.

UI-View is at <http://www.packetradio.org.uk>

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

\*\*\*\*\* Third draft now available \*\*\*\*\*

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
|                  email: g3nrw@arrl.net                 |
|                                                         |
| APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER:        http://www.netro.co.uk/aprs.htm         |
+-----+
```

---

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---

## 465. [aprssig] Re: aprs World Map

From: Earl Needham <KD5XB@AMSAT.ORG>

Date: Fri, 09 Jun 2000 00:08:41 -0600

To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>

Cc: [k0pcg@CritelliLaw.com](mailto:k0pcg@CritelliLaw.com)

Message-ID: <LYR842-89691-2000.06.09-01.15.10--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

At 11:29 PM 6/8/00 -0600, James & Kathy Gutshall blasted the following out into the ether:

>I need a world map also!...

>

>-----Original Message-----

>From: k0pcg <[k0pcg@CritelliLaw.com](mailto:k0pcg@CritelliLaw.com)>

>To: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>

>Date: Thursday, June 08, 2000 8:06 PM

>Subject: [aprssig] aprs World Map

>

>>Anyone know where I can get a world map that will work with APRS. We are

>>trying to get APRS to show the DX Packet Cluster spots.

>>

>>Nick K0PCG

OK, all, it's now at <http://www.tarpleymusic.com/clovis/world.map>

7 3

Earl

Earl Needham, KD5XB <mailto:KD5XB@AMSAT.ORG>

Clovis, New Mexico DM84jk N34d 25.446m W103d 12.700m (or so)

PGP Key ID 0x00BF1A39

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

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## 466. [aprssig] RE: going digital

From: "Pitts, Charles" <[cpitts04@sprintspectrum.com](mailto:cpitts04@sprintspectrum.com)>

Date: Fri, 9 Jun 2000 01:40:25 -0500

To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>

Message-ID: <LYR842-89694-2000.06.09-01.43.34--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

Ok , I may be beating a dead horse here, but the digital voice technology has been around for just a very short time. (digital cell phones) and even those companies can only squeeze out 14.4k baud out of the airwaves for internet access. using the tnc to xmit the voice over a network of digis being that many could be linked similar to or maybe even using the existing digis to accomplish this in the same band spectrum as aprs. using the same network. doing this maybe on the d7 or d700 would give digital clarity over

long distances, map positioning and possible internet access from the radio panel. if the cell phone industry can accomplish this, then ham radio can't be too far behind. unless we as ham operators are willing to sit back and let the age of technology take off around us. and from what i've read on the sig here I don't think any of us will allow that. I'm not saying to give up HF or morse code or tube rigs those all have their place, but ham operators are as different as snowflakes. let some of us take off into the growing revolution of the future, (hmmm, spread spectrum APRS) and let some of us others relax and enjoy the hobby as they have always enjoyed it.

OK I'm done and ready for the flames.

Charles Kevin Pitts  
KE4RCO

---

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#### 467. [aprssig] Re: Installation of equipment (2nd car battery)

From: "Bob Hart" <[rahart@hctc.com](mailto:rahart@hctc.com)>  
Date: Fri, 9 Jun 2000 01:19:38 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-89699-2000.06.09-03.26.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

-----Original Message-----

From: jlagreek <[jlagreek@inlink.com](mailto:jlagreek@inlink.com)>  
To: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Date: 6/08/2000 9:37 PM  
Subject: [aprssig] Re: Installation of equipment (2nd car battery)

>All batteries vent gas. If it is not possible to put the battery under the  
>hood, you should think twice about the second battery. The battery other  
>folks have been describing is better but it still vents some gas.

This is IMPORTANT. I have seen the mess in an RV after a battery blew up  
inside the coach.

>

>The isolator your friend has allows you to draw current from the second  
>battery, but not your start battery. That way you can drain your second  
>battery and still start your car. It also charges both batteries when the  
>car is running. These can be purchased at most trailer / RV supply houses.  
>The second battery is a must if you plan to run a lot of goodies with your  
>car off.  
>

Many motorhomes, mine included, use a relay to isolate the auxilliary  
batteries from the starter battery. It is tied into the ignition system at  
the same point as the electric fuel pump, etc so that it will be open while  
you are starting the engine and then closed during engine run time for  
charging. It will also be open when the ignition switch is in the accessory  
position. A manual switch can be added to give further control of the relay  
so that you can use the aux. battery to jump start the starter battery or  
turn off the charging of the aux. battery. This is also a regular feature in  
motorhomes. The advantage of using a relay is that you will not get the  
voltage drop from the diode in the isolator nor will you get the hash into  
your valuable electronics during starter run time. The relays also seem to be  
more reliable. The relays are available at RV supply houses. One additional  
bit of advice; if you use wet cell lead acid batteries, they should be the  
deep cycle type. Common starter batteries will not give much service life  
for auxilliary use. For those who have the room, 6 volt golf car batteries  
are the best.

Bob Hart, WA7HRA  
Hoodsport, WA (in the summer)  
Arizona desert in the winter. 100% solar and battery powered.

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#### 468. [aprssig] Re: aprs World Map

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Thu, 08 Jun 2000 20:44:45 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89701-2000.06.09-05.15.15--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 09:05 PM 6/8/00 -0500, k0pcg blasted the following out into the ether:  
>Anyone know where I can get a world map that will work with APRS. We are  
>trying to get APRS to show the DX Packet Cluster spots.  
>  
>Nick K0PCG

I can email you a DosAPRS (or is that APRSDos???) map if you like. It's 14K, NOT zipped.

7 3  
Earl

Earl Needham, KD5XB      mailto:KD5XB@AMSAT.ORG  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)  
PGP Key ID 0x00BF1A39

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

---

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#### 469. [aprssig] Re: D7 GPS advice.

From: "Stephen M. King" <frastephen@home.com>  
Date: Fri, 09 Jun 2000 07:57:44 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89716-2000.06.09-07.00.53--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Thanks to all for the help in finding a GPS for the D7.  
Knowing what WILL work with a D7 (or any piece of equipment) is VERY helpful today with all the choices (both bad and good) that are available!  
Thanks!  
73 es Peace,  
Stephen  
KD3OG  
Riverside, NJ

At 09:06 AM 06/07/2000 -0400, you wrote:  
>I am looking for advice on which GPS unit to add to a D7A.  
>I want one that is portable (run on its own battery power) and standalone.  
>What would you suggest?  
>Peace & 73,  
>Stephen  
>KD3OG  
>  
>  
>---  
>You are currently subscribed to aprssig as: frastephen@home.com  
>To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org  
>  
>

---

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---

#### 470. [aprssig] APRS WEEKLY EVENT POST

From: K3for@aol.com  
Date: Fri, 9 Jun 2000 08:57:37 EDT  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: bruninga@nadn.navy.mil  
Message-ID: <LYR842-89721-2000.06.09-08.00.45--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I volunteer to post such a list at least every Thursday of events mailed to me or posted to this SIG. However, I would like to use a different format:

NOTE: THIS IS OLD DATA, JUST FOR DEMONSTRATION:

| DDMM  | LOCAT | START/STOP/DUR | FREQS USED   | CALLS  | EVENT                                      |
|-------|-------|----------------|--------------|--------|--------------------------------------------|
| 16JUN | MD    | 2100 EDT       | 5.7MHZ, APRS | WD5DZC | AMSAT NET<br>whodeguy@email.com            |
| 16JUN | AK    | 3 DAYS         | A027, MIR    | KC7NFZ | HIKING IN DENALI<br>hiker@noemail.net      |
| 19JUN | USA   | 1400-2000EDT   | APRS, 14270  |        | KID'S DAY                                  |
| 19JUN | KS    |                |              |        | NEAR SPACE BALLON LNCH<br>www.ksu.com/nsbp |
| 19JUN | OH    | 0930EDT        |              |        | MILFORD OH APRS SEMINAR<br>moaa@ohio.net   |
| 20JUN | DC-FL |                | APRS         |        | SUNRAYCE                                   |
| 25JUN | AK    | 10 DAYS        | APRS, A027   | KK5YY  | MOBILE IN ALASKA                           |
| 06OCT | CA    |                | APRS         |        | BIG BEAR/MTH MTN 365MI<br>BIKE RACE        |

Line 1 contains the fields shown.

Line 2 contains any overflow (mult callsigns, more freqs, longer description, email address/web site.

Entries can be individual treks or club events - I have no preference.  
If it's interesting and you think people might want to look, send it in.  
If it's recurring on a weekly basis, tell me the day.

I HIGHLY RECOMMEND YOU PROVIDE AN EMAIL/WEB SITE FOR THOSE DESIRING MORE INFO,  
AS I CANNOT/WILL NOT ANSWER QUESTIONS EMAILED TO ME.

It also goes without question to be as explanatory as possible, i.e. fill  
in the blanks.

Please email me direct or post to the SIG in the above format, and I will  
add it to the periodic listing. OBTW, make it easy for me by sending me the columns  
exactly as they should appear -- I'll get to it a lot faster that way.

Effective NOW -- sorry, I can't go back to stuff that's recently been posted.

73's,  
Skip/K3FOR  
k3for@aol.com  
k3for@qsl.net  
k3for@arrl.net

---

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---

#### 471. [aprssig] Com port telnet redirecter?

From: "Smith, Tim" <n1btq@ne.mediaone.net>  
Date: Fri, 9 Jun 2000 09:07:57 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89722-2000.06.09-08.09.06--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Does anyone know of a good com port to telnet redirecter (free or commercial)? I'd like to access multiple serial devices (tnc's, modems, weather stations) connected to a terminal server. I can telnet to the terminal server port fine and acces each device but I'll like to use the com port hooks in most applications.

Thanks,

Tim N1BTQ  
FN41  
(back on packet radion after 10 years!)

---

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#### 472. [aprssig] APRS Etiquette [how much power needed]

From: "Lumpy" <lumpy@digitalcartography.com>  
Date: Fri, 9 Jun 2000 09:55:35 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89731-2000.06.09-08.57.02--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Joel B. Black wrote:

> ...without another WIDE digi within 50 miles and  
> being at 50' HAAT...

> ...I'm at 50W now and cannot get to the nearest  
> digi until the sun goes down...

Hi Joel -

What part of the world are you in? As I mention  
occasionally, one man's molehill is another  
man's Everest, or something like that.

Where I live (Colorado) 5 watts at 50' HAAT  
would be plenty to get you to a 50 mile digi.

Do you have similar problems hitting voice  
repeaters with (only) 50 watts?

I'm having a hard time picturing 50 watts  
not being enough if both digi's are anything  
like line of sight.

Lumpy n0eq

--

The Very Unofficial Colorado APRS Page  
<http://www.digitalcartography.com>

---

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---

#### 473. [aprssig] Fw: Triple Balloon Flight Launch Notice

From: "Mark D. Conner" <mconner@null.net>  
Date: Fri, 9 Jun 2000 08:55:01 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89732-2000.06.09-08.59.40--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

We've postponed this to the 17th due to unfavorable wind conditions expected  
surface and aloft for 10 and 11 June. Otherwise it will be the same.

73 de Mark N9XTN

----- Original Message -----

From: "Bill All" <n3kkm@kcnet.com>  
To: <mconner1@home.net>  
Cc: <dpfister@grapevine.net>  
Sent: Tuesday, June 06, 2000 23:40  
Subject: Triple Balloon Flight Launch Notice

> HABITAT/SkyLab, Near Space Balloon Group, and Mark Conner, N9XTN, are  
> planning a triple balloon launch from the Kansas City area (38 42.324N  
> 95 00.28W) on June 10, 2000 at approximately 7:00 am cdt. Using  
> callsigns KA0JLF-11, N3KKM-11, and N9XTN-11, the 3 capsules plan on  
> transmitting APRS on 144.340 FM. The groups plan to use 300gram balloons  
> and nearly equal payloads to reach an altitude of 50,000 ft +/-.

> --

> -----  
> Bill All N3KKM  
> <http://www.kcnet.com/~n3kkm>  
> Near Space Balloon Group <http://www.kcnet.com/~n3kkm/nearspace.html>  
> -----  
>

---

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#### 474. [aprssig] Re: Com port telnet redirecter?

From: "Jim Gill" <gillj@uswest.net>  
Date: Fri, 9 Jun 2000 09:13:41 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89734-2000.06.09-09.18.57--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

TCPToSer.

<http://www.aball.de/~gotti/tcptoser.html>

Jim NØRMO

----- Original Message -----

From: "Smith, Tim" <n1btq@ne.mediaone.net>  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Sent: Friday, June 09, 2000 8:07 AM  
Subject: [aprssig] Com port telnet redirecter?

> Does anyone know of a good com port to telnet redirecter (free or  
> commercial)?

---

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#### 475. [aprssig] mangled packets

From: twallace@ccgov.org  
Date: Fri, 9 Jun 2000 10:47:31 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89743-2000.06.09-09.47.04--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I downloaded AFilter by Bill Diaz, great program Bill,  
BUT, after watching some of the stuff, I was wondering,  
is it possible, that ALOT of the mangled packets, are caused by

- 1: Over Deviated Digis, Home Stations, Mobiles.
- 2: Over driven TNC's ( too much audio being driven into the TNC by the speaker output)
- 3: not quite enough TX delay ( we all know how slow some radios are to key up)

I have redone all of my radios on a Service Monitor ( perk of working in Two Way radio)  
and have set my deviation levels at aprox 4.5 K of deviation and have taken the audio from the volume pot  
as so my volume control knob has no control over what goes into the TNC.  
I realize it's alot of work to do that to a radio, but I think the rewards later will out weigh the little bit of time I took now.

Ted  
N3XJT

---

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---

#### 476. [aprssig] D7A(G) serial Nos?

From: Ken Brown <W2KB@compuserve.com>  
Date: Fri, 9 Jun 2000 10:45:49 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89744-2000.06.09-09.49.13--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Does anyone know what the starting serial number for the new TH-D7A(G) Kenwood HT is? Supposedly they are being shipped starting around today. Wouldn't want to purchase a D7 with the old firmware.

Tnx 73

---Ken W2KB@ARRL.net

---

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---

## 477. [aprssig] Standards?

From: Earl Needham <kd5xb@amsat.org>  
Date: Fri, 09 Jun 2000 08:56:45 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89745-2000.06.09-09.58.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 10:47 AM 6/9/00 -0400, twallace@ccgov.org wrote:  
><snip>  
>I have redone all of my radios on a Service Monitor ( perk of working in  
>Two Way radio) and have set my deviation levels at aprox 4.5 K of  
>deviation and have taken  
>the audio from the volume pot as so my volume control knob has no control  
>over what goes into the TNC.  
>I realize it's alot of work to do that to a radio, but I think the rewards  
>later will out weigh the little bit of time I took now.

This makes me wonder about standards. Out here, the standard is 3 KHz. I suspect other places are different, as Ted's email indicates.

Do we NEED a nationwide standard? Or are we OK as things stand now?

Earl

---

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---

## 478. [aprssig] Tiny-Web-Pages!

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Fri, 9 Jun 2000 11:04:53 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89746-2000.06.09-10.08.30--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Yesterday I mentioned the concept of "Tiny-Web-Pages" for supplying data to the Kenwood D7 and D700 mobile and handheld front panels.

Stayed up most of the night and now we have APRSdata.exe.

THis is just another version of ARPSdos that only needs to run in someone's shack in your area and serves up the following "Tiny-Web-Pages" to mobiles or Handhelds in the area. No, this will NOT flood the network. It is only one packet per request!

- 1) Maintains a Sat Schedule for the next 80 mins on the radios DX list
- 2) Sends out Satellite OBJects whenever one is in view. Showing you the uplink and downlinks frequencies, doppler and range to you.
- 3) Responds to DATA queries with Tiny-Web-Pages for the radio's panel
  - \* DIGI will send you the nearest DIGI to you
  - \* WX will send you the nearest WX (even if it was originally in raw PEET brothers format or was a WinAPRS positionless report...
  - \* NWS The nearest National Weather Service site
  - \* NWR The nearest NOAA WX radio site and its frequency
  - \* CRASH The nearest reported old Aircraft Crash site for SAR
  - \* HELP A list of data bases available
  - \* RS The nearest Radio Shack or Radio Store to you
  - \* XXXX The nearest ANYTHING to you in the file XXXX
  - \* etc...

To send a Query from the D7 or D700 simply address your message to QDOS (for Query DOS) and in the TEXT of the message, enter the data.  
For Radio Shacks, simply send T0:QDOS :RS

Notice that I purposefully made these as short as possible since these queries will be hand entered on the Ttone pad. Remember, this is for Mobiles and Handhelds. ALL of this data already exists in all versions of ARPSdos, and presumably other APRS software, so there is no need for fixed stations to be doing this.

You can even make up POS\\*.POS files for anything else. GAS, FOOD, HOTEL, etc. And you can manage the data locally. All you need are lists of the LAT/LONGS of any objects you want to provide as "TINY-WEB-PAGES".

To set up an APRSdata engine in your area:

- 1) Download ftp://tapr.org/aprssidg/dosstuff/APRSdos/adat-exe.zip
- 2) Install it in your existing APRSdos directory using PKUNZIP -D
- 3) Follow SETUP instructions in README\APRSdata.txt on how to load, and rename your existing POS\\*.XXX files to the correct name.
- 4) Also read APRStk.txt from which this program was derived.
- 5) Run it as you would your normal version of APRSdos.
- 6) Be CERTAIN that your DATE, TIME, ZONE and DAYLIGHT SAVINGS time are set correctly. BAD satellite data is WORSE than no data!
- 7) COORDINATE with any other APRSdata servers to make sure that we do not have overlapping coverage:
  - a) Set your outgoing path to serve a specific local area, no further.
  - c) Set your CFL limit to ignore Queris more than X hops away

NOTE: APRSdata.exe REPLACES APRStk for the purposes of supplying satellite tracking data to your local area. APRStk from this point on will not do this function, but will concentrate only on automated Satellite ops using the Kenwood radios... APRStk has NOT been updated and the last good one was Version K10. Trying to re-engineer it to do the new upside-down SUNSAT mode just became too hard and too big, so I decided to spin-off this SERVER function to a separate program..

CAUTION! The format used for these OBJECTS is semi-compatible with the old D7. THE OLD D7 will capture the OBJECT, but it will be LISTED under the call sign of the APRSDATA.EXE SYSOP. But the DATA will be correct.

de WB4APR, Bob

---

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---

#### 479. [aprssidg] Re: APRS SCHEDULE

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Fri, 9 Jun 2000 11:09:16 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssidg@lists.tapr.org>  
Message-ID: <LYR842-89749-2000.06.09-10.12.52--lyris.aprssidg#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Our very supportive ex-Dayton-Pizza hosts, Sid and Andrea Caesar have volunteered to maintain the APRS schedule and post it once a week to keep us all informed of upcoming events.

Thanks Sid and Andrea!

If you have an upcoming event, you can post it as usual on the APRSsig, and if Sid or Andrea see it, they will condense it into a one line entry in the revolving APRS EVENTS calendar...

de WB4APR, Bob

---

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---

#### 480. [aprssidg] Re: NEW SIG????

From: "Hershel Saylor" <saylor@ori.net>  
Date: Fri, 9 Jun 2000 10:12:12 -0500  
To: "TAPR APRS Special Interest Group" <aprssidg@lists.tapr.org>  
Message-ID: <LYR842-89750-2000.06.09-10.14.51--lyris.aprssidg#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I know someone who is on this reflector but doesn't read the messages because they "are too technical". He too has told me that hams need a place for newcomers to get help in a simple manner.

There are times that someone will ask a fairly simple question on this list and since it is a beginners question, they will be told to read the docs that are with DOS APRS.

There should be a simpler way for a beginner to get assistance. I know that the argument is that they need to do a little of the work themselves,

not request that someone else do their research.  
But, I have sometimes spent hours tracking  
down an answer to a question (not ham related)  
rather than bother everyone on a mail list.  
Later, someone else will post the SAME question  
to the list and it will be answered politely in a matter  
of minutes and usually point them to the source  
where I found the answer after hours of looking.

What if a FAQ was posted to this list on a weekly (?)  
basis? Or, maybe the tag lines at the end of each  
message have a link to a website that contains info  
for beginners. That site could then contain links to  
all the other popular APRS sites.

Hershel

> I have often thought that we are leaving  
> many "Newcomers behind" in the wake of all the technical advancements!

---

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#### 481. [aprssig] Re: NEW SIG????

From: Alan B Schulman <n4lbi@webaccess.net>  
Date: Fri, 09 Jun 2000 09:25:55 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: APRSDOS <bruninga@nadn.navy.mil>, APRSSIG <aprssig@tapr.org>  
Message-ID: <LYR842-89751-2000.06.09-10.29.10--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Lee et al:

One of the smaller frustrations to a new guy of the aprssig is the  
direct responses to questions. I am assuming of course that the  
queries were indeed answered directly. I was looking forward to  
some answers. I do understand that even I will eventually scream  
if I see KPC3 pinouts again!! Where should the line be drawn??  
I would favor permitting everyone the use of the delete key, but I  
surely understand disagreements.

Assuming that a new SIG makes sense, what would it's goals be??  
My hip shot is that it should be there to answer questions such as:

- o I just bought a xxxx without a manual and ...
- o I just looked at www.aprs.net for 30 seconds and think  
that I would make the world a better place if I installed  
a digipeater. What do I need to know in 25 words or less?
- o In this 'mister bill' world, how do I chose between APRSdos,  
WinAPRS, APRS+SA...
  - o Is there anything significantly different in the  
maps??
  - o Other features?? (I don't even know what to ask!!)
- o What symbolic digipeating requests (RELAY, WIDEN-n...) make  
sense for me??

Who is the audience that needs this?? Is it someone like me who has,  
in the distant past, understood TCP/IP, but who doesn't know what KISS  
really is?? The audience needs to include people with \*reliable\*  
answers. In my short time on the aprssig I have occasionally seen  
responses that I thought were not completely correct. They were never  
egregious enough for me to throw in my two cents.

After gadzillions of years in the work-a-day world and the complete loss  
of hair, I am used to reading the manual and making it work (maybe on  
the third try!!). I would have to get over my cultural bias against  
people who want their hands held. (I am glad that there are more  
tolerant people that I in this world!!)

I haven't really really said what I think because I don't know what I  
think  
yet. This note is a quick reaction to your idea.

Looking forward to being helpful,,,

Alan n4lbl

Lee Dahlen wrote:

>  
> Subject: Re: [amsat-bb] Going Digital... Ham Radio?  
> From: Alan B Schulman <n4lbl@webaccess.net>  
> Date: Wed, 07 Jun 2000 17:01:43 -0600  
> X-Message-Number: 32  
>  
> Folks:  
>  
> Let me throw up my ideas about this as a new guy on the block in the  
> hope that perhaps my perspective is helpful.  
>  
> < SNIP>  
>  
> This gent has definitely done his homework!!! If you havent read his entire  
> msg. please take the time.!!! I have often thought that we are leaving  
> many "Newcomers behind" in the wake of all the technical advancements! ( I  
> think I spoke on this a year ago and got blasted,) But I still feel that it  
> may be appropriate to do either one of two things. Add a new SIG or  
> redefine, One not as active. My proposal is:  
>  
> Add a new sig for Newcomers. ( Actually this should be it, and add a  
> technical adv. sig. Like maybe adding the T/A into the HTSIG's dialog, to  
> promote, the advancement of the mode.??) But keep the dialog on the  
> Newcomers SIG simple. ONE POINT ONLY: Its mission statement should be  
> "Working together to get newcomers to the APRS world of Amateur radio."  
> Then once they get past the basic stuff, they can "Promote themselves to a  
> more advanced sig by either logging off this one to sign on another, or  
> staying around to help others as well.  
>  
> I know we are sig poor, but it was refreshing to see I was not alone in this  
> thinking.  
>  
> Ideas??? ( Not flames)  
>  
> Lee/KD4TQZ

---

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## 482. [aprssig] Re: APRS Etiquette

From: Robert Stessel <stessel@maine.edu>  
Date: Fri, 09 Jun 2000 15:05:25 +0000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89752-2000.06.09-10.30.57--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 17:49 06/08/2000 -0500, Joel wrote:

All I had to do was put an antenna at the top  
>of the tower (HAAT 200') and plug in the radio. Well, upon inspection,  
>the feedline was bad in several places (read bent) and there was a lot of  
>corrosion in the connector at the top. In effect, I have gone from a 200'  
>HAAT to about 50' HAAT.

> I'm at 50W now and cannot get to the nearest digi until the sun goes down.

If any RF is getting through to the antenna at all, you may still have an  
HAAT of 200'  
but your ERP may only be a few watts out even though you're putting 50 in.

Good luck from an old tower climber (WCSN's 300 footers).

K1WXY - "Stes" - Robert Stessel, 19 Main St., Milford ME 04461 - 207-827-8733  
U.Maine - Orono - Oceanography - stessel@maine.edu - 207-581-4393  
U.Maine ARC Repeater W1YA 145.47(-)

---

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#### 483. [aprssig] Re: NEW SIG????

From: Rick Szpyrka <wb8tif@earthlink.net>  
Date: Fri, 09 Jun 2000 11:41:27 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89756-2000.06.09-10.44.24--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Instead of another Sig (which we don't need, my opinion) why not an FAQ list on TAPR for APRS. This could have a listing of all the questions that have been asked by newbies that are obvious to us but not to someone just getting started in APRS.

My 2cents,

Rick

--

Rick Szpyrka       WB8TIF  
Bloomfield Hills, MI USA  
Email: wb8tif@earthlink.net  
USS CONFLICT (MSO-426) Web Page: <http://www.mso426.com/>

---

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---

#### 484. [aprssig] Re: NEW SIG????

From: aa8ei@eos.net  
Date: Fri, 9 Jun 2000 11:48:54 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89761-2000.06.09-11.08.47--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

It's a technical hobby. RTFM(s) and study to learn. Find a local Elmer. Search the Web. Take a class.

But don't clutter up the list with regular big messages. There are already too many lists with which to keep up, and they're already busy enough without repeating stuff regularly.

A FAQ already exists, in a form. Granted it takes some digging to get to the info. But it's there. If that's too hard, just ask a question here. It'll get answered, someone likely will offer to continue off-list, and the learning will go on.

Seems to me that web sites are quoted in 'almost' every message posted.

My \$00.02

Tony

Hershel Saylor wrote on 6/9/00 [aprssig] Re: NEW SIG????

>I know someone who is on this reflector but  
>doesn't read the messages because they  
>"are too technical". He too has told me that  
>hams need a place for newcomers to get help  
>in a simple manner.  
>  
>There are times that someone will ask a fairly  
>simple question on this list and since it is a  
>beginners question, they will be told to read the  
>docs that are with DOS APRS.

---

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#### 485. [aprssig] Re: APRS Etiquette

From: Dale Blanchard <bolero@accessnv.com>  
Date: Fri, 09 Jun 2000 09:57:48 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89779-2000.06.09-12.12.53--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

"Joel B. Black" wrote:

>

> Is it proper APRS Etiquette to run high power (i.e. >100W) if you cannot  
> find a suitable site for your digi? I ask because the site I had picked

> already had the feedline run. All I had to do was put an antenna at the top  
> of the tower (HAAT 200') and plug in the radio. Well, upon inspection,  
> the feedline was bad in several places (read bent) and there was a lot of  
> corrosion in the connector at the top. In effect, I have gone from a 200'  
> HAAT to about 50' HAAT. This is a problem that I have no way of overcoming  
> without someone donating about 300' of 7/8" hardline.

If you have that much line loss on transmit you have a deaf receiver.  
You are probably not receiving any thing.  
It is not proper APRS etiquette to operate with bad feed line.  
If you are going to use 300 feet you may have to use a receive pre-amp. I  
would go for installing the digi up on the tower.

---

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---

#### 486. [aprssig] Re: NEW SIG????

From: "Jeff Brenton" <[jeffb@espi.com](mailto:jeffb@espi.com)>  
Date: Fri, 9 Jun 2000 12:14:50 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-89782-2000.06.09-12.19.53--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> what should it cover

The problem with a "newbies" sig would be that old-timers would NOT hang  
out there, because they'd be answering the same questions day after day...

There are a lot of web pages, unfortunately spread all over the net, to  
deal with things on your list. In fact, I have a page on "building an APRS  
network" mixed in with the other stuff on the Questionable web page, which  
deals with the "I want to put up a digi" question, but I do not promote  
it... in part, because it isn't "finished".

90% of the questions new users have could be dealt with using a "master"  
link page. TAPR has one that needed a new maintainer last year... I don't  
know the current status.

Another way of doing it would be a "newbie newsgroup", where the messages  
hang around for a selectable length of time, assuming that it was policed  
properly (non-newbie-related messages are pruned out, and good messages,  
both questions and answers, are held onto indefinitely). Unfortunately,  
most people that would have such questions are just as likely to be  
unknowledgeable about the "proper" way to use an archived newsgroup...

Jeff Brenton  
President,  
Engineered Software Products, Inc  
<http://espi.com>  
Questionable web page: <http://dididahdahdidit.com>  
Northern Illinois APRS Network: <http://nian.aprs.net>

My goal in life: To be remembered as someone who always  
stated what should have been obvious to everyone in the  
first place.

---

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---

#### 487. [aprssig] Re: mangled packets

From: "Jeff Brenton" <[jeffb@espi.com](mailto:jeffb@espi.com)>  
Date: Fri, 9 Jun 2000 12:04:47 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-89783-2000.06.09-12.20.09--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> is it possible, that ALOT of the mangled packets, are caused by ...

Mangled packets should never make it to internet, IF everyone has PASSALL  
OFF set. Incomplete or damaged over-the-air packets should die within the  
receiving TNC.

Jeff Brenton  
President,  
Engineered Software Products, Inc

<http://espi.com>  
Questionable web page: <http://dididahdahdidit.com>  
Northern Illinois APRS Network: <http://nian.aprs.net>

My goal in life: To be remembered as someone who always  
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first place.

---

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#### 488. [aprssig] Tracking after the fact from FINDU

From: "Thomas M. Schaefer" <[toms@inconnect.com](mailto:toms@inconnect.com)>  
Date: Fri, 9 Jun 2000 11:24:04 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-89784-2000.06.09-12.26.18--lyris.aprssig#lists.tapr.org](mailto:LYR842-89784-2000.06.09-12.26.18--lyris.aprssig#lists.tapr.org)>  
Rendered body type: text/plain

Well,

Here is what I discovered so far on producing a track of stations from  
FindU.

Street Atlas has the ability to import Lat Long positions from a text file.  
The format is as follows:

```
4035.32,-11151.28,Start,16,1,2
4037.32,-11151.28,2,16,1,2
4039.32,-11151.28,3,16,1,2
4041.32,-11151.28,4,16,1,2
4043.32,-11151.28,5,16,1,2
4045.32,-11151.28,6,16,1,2
4047.32,-11151.28,7,16,1,2
4049.32,-11151.28,8,16,1,2
4051.32,-11151.28,9,16,1,2
4053.32,-11151.28,10,16,1,2
4079.32,-11051.28,Finish,16,1,2
```

If you take that text (put it into a txt file), then in SA go open it, you  
can get a track of something. It is not a great track in that there is no  
connecting of the dots, but it is something.

For this to work, what we need is a cgi query that produces that text file.  
The query would ask for the duration of the track desired (date - date), and  
get the data that you can save into a text file. The format for those that  
want to help (from the help files...

-----  
NOTE: The Lat/Lon text file must be saved in an ASCII format and separated  
by commas in order to be imported into Street Atlas USA 6.0. The fields need  
to be in the order of: Lat, Lon, Name, Symbol Number, Size Number, Color  
Number. The Name, Symbol Number, Size Number and Color Number fields are  
optional. If none of these fields is specified, the points will display as  
small blue diamonds with no names  
-----

-----

I am still looking for an Internet only solution, but this is what we have  
now. I am working on a query in Access to test this out, but findu seems to  
be down at the moment.

Since we all have aprs programs, this stuff could also be put into an APRS  
map and displayed if someone wants to tell us what format to put the  
lats/longs into.

Tom NY4I

---

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#### 489. [aprssig] Re: NEW SIG????

From: "George Kammerzell N0ZED" <n0zed@rmaprs.org>  
Date: Fri, 9 Jun 2000 11:34:12 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89786-2000.06.09-12.40.35--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

slow down a bit all , I know that Scott-KC5JGV is working on a new user /  
help / set up web site  
once he get it onling a few of us just needs to add the url in the to  
our messages

From: Jeff Brenton <jeffb@espi.com>  
To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Sent: Friday, June 09, 2000 11:14 AM  
Subject: [aprssig] Re: NEW SIG????

> > what should it cover  
>  
> The problem with a "newbies" sig would be that old-timers would NOT hang  
> out there, because they'd be answering the same questions day after day...  
>  
> There are a lot of web pages, unfortunately spread all over the net, to  
> deal with things on your list. In fact, I have a page on "building an APRS  
> network" mixed in with the other stuff on the Questionable web page, which  
> deals with the "I want to put up a digi" question, but I do not promote  
> it... in part, because it isn't "finished".  
>  
> 90% of the questions new users have could be dealt with using a "master"  
> link page. TAPR has one that needed a new maintainer last year... I don't  
> know the current status.  
>  
> Another way of doing it would be a "newbie newsgroup", where the messages  
> hang around for a selectable length of time, assuming that it was policed  
> properly (non-newbie-related messages are pruned out, and good messages,  
> both questions and answers, are held onto indefinitely). Unfortunately,  
> most people that would have such questions are just as likely to be  
> unknowledgeable about the "proper" way to use an archived newsgroup...  
>  
> Jeff Brenton  
> President,  
> Engineered Software Products, Inc  
> http://espi.com  
> Questionable web page: http://dididahdidit.com  
> Northern Illinois APRS Network: http://nian.aprs.net  
>  
> My goal in life: To be remembered as someone who always  
> stated what should have been obvious to everyone in the  
> first place.  
>  
>  
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>

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#### 490. [aprssig] Re: NEW SIG????

From: Alex <kg4ecv@amsat.org>  
Date: Fri, 09 Jun 2000 13:48:38 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89787-2000.06.09-12.43.05--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Excellent idea, Lee!

As a newbie I don't want to have to worry about whether or not my  
question has been answered before or that it might inconvenience someone  
more experienced. Especially the ones who sign up to so many lists and  
don't know how to filter out the messages they're interested in, so that  
they can't handle the traffic anymore. I know there are many resources  
out there to help the newbie, but it wouldn't hurt to point the newbie  
in the right direction if the newbie hasn't found the resources yet. And

instead of the experienced users deciding whether or not there's a need for such a list or what the goal and content should be, maybe it should be left up to us newbies? I dunno.

Perhaps instead of dismissing the idea beforehand or worrying too much about structure, maybe we should give it a try and see what happens. Again, I fully support your idea, Lee.

73s,  
de Alex

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#### 491. [aprssig] Re: Standards?

From: Jeff King <[jeff@aerodata.net](mailto:jeff@aerodata.net)>  
Date: Fri, 09 Jun 2000 13:43:59 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-89789-2000.06.09-12.45.13--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Earl Needham wrote:

```
> At 10:47 AM 6/9/00 -0400, twallace@ccgov.org wrote:
> ><snip>
> >I have redone all of my radios on a Service Monitor ( perk of working in
> >Two Way radio) and have set my deviation levels at aprox 4.5 K of
>
> This makes me wonder about standards. Out here, the standard is 3
> KHz. I suspect other places are different, as Ted's email indicates.
>
> Do we NEED a nationwide standard? Or are we OK as things stand now?
```

There already are "standards" in place for our version of FM-AFSK radio, one need only review some of the FM theory books to understand what the goals are.

Setting the deviation on the high tone, at about 2.5-3.5khz, is optimal. Lower, and your signal to noise ratio is reduced, higher and most radios start to go into clipping.

Your doing it right Earl.

-Jeff

---

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#### 492. [aprssig] Re: NEW SIG????

From: "Hershel Saylor" <[saylor@ori.net](mailto:saylor@ori.net)>  
Date: Fri, 9 Jun 2000 12:55:11 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-89791-2000.06.09-12.57.43--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The web has answers to most any question you can ask.  
Finding that answer is quite a task sometime.

Suppose:

I am at a local ham club meeting. I want to know the PL tone of the club repeater. I ask that question during the meeting. It takes a few seconds to get an answer. Simple? Yes! If a club operated like a mail list then 8 people would stand up, repeat my question, repeat EVERYTHING before them and then proceed to tell me that I could have found that info in the repeater guide. Then we would have 6 to 10 more members stand up and quote EVERYTHING that has gone before and debate the merits of asking that question during a meeting.

Suppose:

I have a question about <any subject>. There is an answer person who delivers answers to my door every few minutes. I hand my question to the courier, they take it to the answer department, the question is answered and returned to my door with 30 minutes.

Simple? Yes! But were it a mail list, all my neighbors would complain about the constant traffic through the neighborhood, the waste of gasoline and the visual clutter of a vehicle parking in front of my drive. And, why didn't I go to the library and look it up myself?

I too subscribe to many mail list with hundreds of messages per day. You should see the wear on my delete key.

Mail list subscribers can save us all a lot of hassle if they would try some of the following:

1. Please post a valid topic in your subject line. Not re: digest #xxx. For example, I read all HamHud topics and skip most all Precision Map 4.0 topics.
2. If someone asks a simple FAQ don't answer it yet. Read all the way to the end of your messages. See if someone else has answered the question. Don't jump in just to complain or suggest reading the manual.
3. Please don't quote everything that has gone before. When you reply, distill the original messages.
4. Have a heart. If you were installing a <any item> for the first time, you may just need one question answered immediately and don't want to have to go back to the part place to get the answer.
5. (my own preference) Put the quoted text at the end of the reply. I check my mail often enough that the question and reply are close together timewise so I don't need to read all the quoted text.

If a FAQ was posted to the list on a weekly basis, it would be easy to set a mail filter to delete that message and it would not clutter up members mailboxes. A FAQ would require that someone determine what question ARE asked frequently!

I have a KPC3 that I bought from eBay. I upgraded the PROM to ver 6. I don't have a manual. So, when I want to know about a feature, I don't ask on this mail list. I pick someone from the list and email them personally. There are some users here who have been of major help to me.

Note: These are just my ideas. Others may have many reason why these ideas wouldn't work in the real world!!!

Hershel

> It's a technical hobby. RTFM(s) and study to learn. Find a local Elmer. Search the Web. Take a class.  
>  
> A FAQ already exists, in a form. Granted it takes some digging to get to the info. But it's there. If that's too hard, just ask a question here. It'll get answered, someone likely will offer to continue off-list, and the learning will go on.

---

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### 493. [aprssi] Re: APRS Etiquette

From: David VanHorn <dvanhorn@cedar.net>  
Date: Fri, 09 Jun 2000 13:08:20 -0700  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-89792-2000.06.09-13.12.33--lyris.aprssi@lists.tapr.org>  
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----  
Hash: SHA1

I was thinking about this while waiting for an appointment the other day.

First off, have you measured SWR into the hardline? It might not be as bad

as you think. I'd want to do a loss measurement, Tx through a bird into a dummy, then tx through the hardline, a bird, and into the same dummy, but an SWR measurement into the hardline should indicate any serious problems.

That being said..

If you take two identical radios, with identical antennas, they will have some maximum range where you can copy packets properly.

If you add antenna gain to either (makes no difference) you extend that range. Antenna gain on either side just shows up as less path loss.

But:

Let's make one of them a digi.

Let's say it's range in this config is 10 miles (so it's a small digi, it keeps the math simple)

It's coverage area is 314 sq miles.

Now let's add 6dB to the transmit gain (again keeping the math simple)

It can't hear any farther, but now it can talk farther.

6dB doubles the range, so that's 20 miles now, but what we get is still the old 10 mile range and area, plus an additional 10 miles where it can be heard, but not talked to.

This means an area of 942 sq miles, that is actually being QRM'd by the digi!

If you add 6dB on the receive side, (or cut the TX by 6 and rescale) then you get a much more attractive situation.

Still, in the digi situation, antenna gain is nice and symmetrical, so it doesn't make things any worse, or any better WRT tx and rx range.

Problem is, the world isn't that simple.

However, it does indicate that digis (and probably everyone else as well) ought to err on the side of lower transmit power.

I really do wish there was some standard for receiver sensitivity...

- - -

Are you an ISP? Tired of spam?

[www.spamwhack.com](http://www.spamwhack.com) A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----

Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBOUF0tIF1GDz116VWEQLYGwCgsHqtPitWNeaqNVsYPaf0NTIpf1wAoN30

J/BQpWCFjV+3Hr+m2wa7v3w2

=r8b2

-----END PGP SIGNATURE-----

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#### 494. [aprssig] Re: Trimble Placer 400

From: "Larry Zanella" <[larry.zanella@attws.com](mailto:larry.zanella@attws.com)>

Date: Fri, 9 Jun 2000 13:36:48

To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>

Message-ID: <LYR842-89794-2000.06.09-13.39.52--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

Try the Garmin GPS 35 PC. It works perfectly with the D700, and it is reasonably priced. Also, with the DB-9 connector, you can plug it into your laptop and download free software updates from Garmin, as necessary.

Larry

---

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#### 495. [aprssig] [aprssig]

From: "George Kammerzell N0ZED" <n0zed@rmaprs.org>  
Date: Fri, 9 Jun 2000 13:08:24 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89798-2000.06.09-14.14.47--lyris.aprssi@lists.tapr.org>  
Rendered body type: text/plain  
is aprs.net hosed or is Denver just in a internet hole

---

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#### 496. [aprssi] Re: Standards?

From: twallace@ccgov.org  
Date: Fri, 9 Jun 2000 15:21:15 -0400  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-89799-2000.06.09-14.20.48--lyris.aprssi@lists.tapr.org>  
Rendered body type: text/plain

You will be happy to know, I adjusted it, the CAL command is a wonderful thing,  
BUT we all know and it was said earlier, most people do it by ear, and now that mine is set per the standard, compared to the "others" I have to wonder if it was working! Since I am NOT a packet guru, I set it to where I have the POCSAG outputs on my paging network.  
Sorry for causing the QRM. But..afterall, isnt that what the Sig is for?...to help each other SET the standard!  
73  
Ted

---

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#### 497. [aprssi] Re: Standards?

From: Jeff King <jeff@aerodata.net>  
Date: Fri, 09 Jun 2000 15:32:49 -0400  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssi@lists.tapr.org>  
Message-ID: <LYR842-89804-2000.06.09-14.34.08--lyris.aprssi@lists.tapr.org>  
Rendered body type: text/plain

Let me guess, your concerned because your packets sound alot lower in volume then others on the air when you adjusted to proper deviation.

As Bob Bruninga pointed out here earlier, he was seeing something like a 90% misadjusted rate.... a tone imbalance ("twist") which was being caused by excessive audio going to the transmitter, causing the clipper to clip at the higher frequency tone. It only takes 10mv-100mv to drive most mic inputs, and many TNC's can put out over 1 vpp on the TNC audio out. So you do have to adjust things.

So I'd not be overly concerned if yours sound lower in volume, good chance your being decoded more reliably then those stations anyways.

-Jeff

twallace@ccgov.org wrote:

> You will be happy to know, I adjusted it, the CAL command is a wonderful  
> thing,  
> BUT we all know and it was said earlier, most people do it by ear, and now  
> that mine is set per  
> the standard, compared to the "others" I have to wonder if it was working!  
> Since I am NOT a packet guru, I set it to where I have the POCSAG outputs  
> on  
> my paging network.  
> Sorry for causing the QRM. But..afterall, isnt that what the Sig is  
> for?...to help each other SET the standard!  
> 73  
> Ted  
>  
> ---  
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#### 498. [aprssid] Re: Standards?

From: David VanHorn <dvanhorn@cedar.net>  
Date: Fri, 09 Jun 2000 14:39:11 -0700  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssid@lists.tapr.org>  
Message-ID: <LYR842-89811-2000.06.09-14.43.26--lyris.aprssid@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----  
Hash: SHA1

At 03:32 PM 6/9/00 -0400, Jeff King wrote:  
>Let me guess, your concerned because your packets sound alot  
>lower in volume then others on the air when you adjusted to proper  
>deviation.

Same thing here, when I readjusted, it sounded noticeably weak on tx audio,  
but I believe my instruments :)

BTW: Another source of audio wierdness. Large coupling caps.  
There's usually a DC blocking cap involved somewhere. I've heard a few  
stations that have a pronounced muting of the preamble, right after they  
key up. This sounds like the effect of overly large AC coupling caps  
between the TNC and the xcvr. The effect is to lower the gain of the xcvr  
mic stage, compressing the amplitude until the coupling cap charges.

The main symptom would be needing an overly large TXD value.

- - -

Are you an ISP? Tired of spam?  
www.spamwhack.com A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----  
Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgpc.com>>

iQA/AwUBOUFj/oF1GDz116VWEQKX4wCfYWoCmXfNFqHuFcV9Zl0BYmxILwAnRHZ  
je8MnFyGwYqjoV7/j/M5zuAX  
=/MJ8

-----END PGP SIGNATURE-----

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#### 499. [aprssid] Re: Standards?

From: twallace@ccgov.org  
Date: Fri, 9 Jun 2000 15:50:05 -0400  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-89817-2000.06.09-14.49.35--lyris.aprssid@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I agree, my instruments never lie!

---

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#### 500. [aprssid] Re: Standards?

From: Ray Vaughan <ray@rayvaughan.com>  
Date: Fri, 09 Jun 2000 15:53:38 -0400  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Cc: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-89821-2000.06.09-14.58.42--lyris.aprssid@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I think a while back, there was talk of a sound card based decoder that would give a deviation reading for every callsign/SSID. Did anyone ever develop such a thing? In theory, you could Telnet into it and see your packet decoded and the deviation level as you adjusted. Of course, the software would have to be calibrated with a service monitor, or we would have everyone setting up to a bad standard. It would be even more helpful to know the deviation on each tone, this could indicate that we have no, or double pre-emphasis.

Another thought... the same set up could also tell us if we have excessive tx delay. It could tell us the delta between the un-squelched noise and the packet header.

Anyone here ever do any sound card decoder work?

At 03:32 PM 6/9/00 -0400, you wrote:

>As Bob Bruninga pointed out here earlier, he was seeing something like  
>a 90% misadjusted rate.... a tone imbalance ("twist") which was being  
>caused by excessive audio going to the transmitter, causing the clipper to  
>clip at the higher frequency tone. It only takes 10mv-100mv to drive most  
>mic inputs, and many TNC's can put out over 1 vpp on the TNC audio  
>out. So you do have to adjust things.

---

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---

## 501. [aprssig] Re: Standards?

From: David VanHorn <dvanhorn@cedar.net>  
Date: Fri, 09 Jun 2000 15:07:30 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89823-2000.06.09-15.11.42--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----  
Hash: SHA1

>Another thought... the same set up could also tell us if we have excessive  
tx delay. It could tell us the delta between the un-squelched noise and  
the packet header.

It's possible that the HH-III may be able to do all of this.

---

Are you an ISP? Tired of spam?  
www.spamwhack.com A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----  
Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBOUFqoYf1GDz116VWEQKT/ACfSJXcQ3ofMkxXrxPCEJ6tTXzEnS8AoN6N  
t8DegwEdt7YiMQ4w01JQaUnd  
=9R/4  
-----END PGP SIGNATURE-----

---

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---

## 502. [aprssig] Re: NEW SIG????

From: "Brian B. Riley" <brianbr@macconnect.com>  
Date: Fri, 9 Jun 2000 16:25:58 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89828-2000.06.09-15.28.52--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

----- Original Message -----  
From: "Hershel Saylor" <saylor@ori.net>  
Sent: Friday, June 09, 2000 11:12 AM  
Subject: [aprssig] Re: NEW SIG????

> I know someone who is on this reflector but doesn't read the  
> messages because they "are too technical". He too has told me  
> that hams need a place for newcomers to get help in a simple manner.

On this reflector I will grant you that some threads get a little esoteric, but this argument is totally bogus. Ham radio isn't CB, it is a TECHNICAL hobby. Since your friend doesn't read the messages on this reflector, how does he know they are too technical? ... and the there is the question "Why bother?"

> There are times that someone will ask a fairly simple question on  
> this list and since it is a beginners question, they will be told to  
> read the docs that are with DOS APRS.

... and your point is???????

> There should be a simpler way for a beginner to get assistance. I  
> know that the argument is that they need to do a little of the work  
> themselves, not request that someone else do their research.  
> But, I have sometimes spent hours tracking down an answer to  
> a question (not ham related) rather than bother everyone on a mail  
> list. Later, someone else will post the SAME question to the list  
> and it will be answered politely in a matter of minutes and usually  
> point them to the source where I found the answer after hours of  
> looking.

No one on the list is paid a penny to keep it going. Everything you get here is free ... sometimes you gets more than your money's worth other times you gets what you paid for.

> What if a FAQ was posted to this list on a weekly (?) basis? Or,  
> maybe the tag lines at the end of each message have a link to a  
> website that contains info for beginners. That site could then  
> contain links to all the other popular APRS sites.

This is a good idea ... it is done on may Usenet lists.

--

Brian B. Riley, N1BQ (ex-KA2BQE)  
<<http://www.wulfden.org>>

---

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---

### 503. [aprssig] Re: NEW SIG????

From: Steve Dimse <[sdimse@netrox.net](mailto:sdimse@netrox.net)>  
Date: Fri, 9 Jun 2000 15:44:59 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-89835-2000.06.09-15.48.20--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

After driving from Seattle to Miami in 68 hours, the last thing I want to do is jump into another argument, yet here I am ;-)

I think breaking things up is a bad idea. First, there already is way-too-much cross-posting going on. People with far-flung involvement in APRS find themselves getting two or more copies of many messages.

Second, cross-fertilization is important. Some of the best discussions on the SIG occurred after a naive newbiw question. Shuffling newcomers off to a private corner, however well-intentioned, would lower the quality of what you see on the SIG.

Just my opinion....

Steve K4HG

---

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---

### 504. [aprssig] aprs.net down....

From: Steve Dimse <[sdimse@netrox.net](mailto:sdimse@netrox.net)>  
Date: Fri, 9 Jun 2000 15:48:20 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-89836-2000.06.09-15.51.33--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

Figures. After working like a champ during my three week absence, the system is now unavailable. The problem is not mine though, the router at the Museum has died, no ETA on repairs...

findu.com is up, however the name service is on the aprs.net machine. You can use the IP, 64.34.101.121 to reach it if the name doesn't work.

Steve K4HG

---

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---

## 505. [aprssi] Re: NEW SIG????

From: David VanHorn <dvanhorn@cedar.net>  
Date: Fri, 09 Jun 2000 15:52:55 -0700  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-89837-2000.06.09-15.57.09--lyris.aprssi@lists.tapr.org>  
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

At 03:44 PM 6/9/00 -0500, Steve Dimse wrote:  
>After driving from Seattle to Miami in 68 hours, the last thing I want to  
>do is jump into another argument, yet here I am ;-)

Ouch! I've done SF to here in 48 single driver, but I wouldn't recommend it.

- - -

Are you an ISP? Tired of spam?  
www.spamwhack.com A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----

Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBOUF1R4F1GDz116VWEQKZ5gCcCT+pc8PiQTaNJd8bthd8GNP9KQAOner  
KLDxF5wtUArQp0mDOvHNiV8B  
=nZzD

-----END PGP SIGNATURE-----

---

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---

## 506. [aprssi] Re: aprs.net down....

From: Greg Noneman <greg@clubnet.net>  
Date: Fri, 9 Jun 2000 13:57:52 -0700  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-89838-2000.06.09-16.02.30--lyris.aprssi@lists.tapr.org>  
Rendered body type: text/plain

>Figures. After working like a champ during my three week absence, the  
>system is now unavailable. The problem is not mine though, the router at  
>the Museum has died, no ETA on repairs...

>

>findu.com is up, however the name service is on the aprs.net machine. You  
>can use the IP, 64.34.101.121 to reach it if the name doesn't work.

>

>Steve K4HG

>

>

Additionally, the secondary server can be reached at  
aprs.socal.clubnet.net.

Greg  
WB6ZSU

---

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---

## 507. [aprssi] Upgrading/Updating website....

From: Jim Duncan <ku0g@kcaprs.org>  
Date: Fri, 09 Jun 2000 16:51:39 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89850-2000.06.09-16.54.59--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I'm in the middle of upgrading and updating the KCAPRS Web Site (since the crash of last weekend).... I need web addresses for the following people/information:

TouchAPRS  
Citadel computers (Scott Ratchford)  
PalmAPRS (Mike Musick)  
WinCE APRS  
XASTIR  
AGWPE

Also, please check out the beginnings of the new site at [www.kcaprs.org](http://www.kcaprs.org)

All of the old pages ARE still on the server but are no longer referenced on the entrance page... If you need a specific page link, please let me know! I'm trying to update/upgrade one page per day and I'm generally working on them in the late evenings when net hits are down. If you try to access any of the pages and you get something "weird" (outside of that which most of you have already come to expect from me!), wait 5 minutes and try "shift-reload" on your browser to force a complete feed of the page.

At this point I am working on the APRS Software page... Anyone with suggestions or specific requests for items to be included on or linked to this page should contact me by PRIVATE EMAIL ASAP!

--  
73 de Jim, KU0G  
Chairman/Coordinator  
Kansas City APRS Working Group, W0APR  
First Alert Storm Team KMBC-TV9  
Mailto:ku0g@kcaprs.org  
Webpage: <http://www.kcaprs.org>

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---

## 508. [aprssig] Re: NEW SIG????

From: rbost@itexas.net (Roy Bost)  
Date: Fri, 9 Jun 2000 17:22:57 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89852-2000.06.09-17.26.13--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

To the best of my knowledge, no one has sprung out of their mother's womb knowing all there was to know about APRS! We all had to learn about APRS someplace and for most of us that someplace was on this SIG! Let's not be a bunch of curmudgeons and chase people off just because they asked the same question that someone asked last week, or last month or maybe you asked last year. Have patience, they're just trying to learn about this phase of our hobby.

Roy Bost N5TAM  
[rbost@itexas.net](mailto:rbost@itexas.net)

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## 509. [aprssig] "Tiny Web Pages" APRSDATA Running in Philly area

From: "Stephen M. King" <frastephen@home.com>  
Date: Fri, 09 Jun 2000 18:53:22 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89856-2000.06.09-17.56.32--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The "Tiny-Web-Pages" service of APRSDATA is running on my system in the Philadelphia area.  
Any feedback related to this new service in the area would be welcomed!  
Good luck and have fun with this new service.  
Anyone have ideas for other data we might keep?  
See Bob, WB4APR's "Tiny-Web-Pages" post from earlier today for more info on

how this works!

Peace and 73,  
Stephen  
KD3OG  
Riverside, NJ

---

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---

## 510. [aprssig] aprs.net

From: Steve Dimse <[sdimse@netrox.net](mailto:sdimse@netrox.net)>  
Date: Fri, 9 Jun 2000 18:17:13 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-89862-2000.06.09-18.20.23--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

OK, the museum router is up, but now there seems to be a misconfiguration or failure somewhere else in the internet. I can reach the system from my DSL line, but not from my dial-up. The size of the connect list is about half of what I'd expect, so if you are unlucky enough to be in the half without access, hang in there!

Steve K4HG

---

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---

## 511. [aprssig] Re: "Tiny Web Pages" APRSDATA Running in Philly area

From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
Date: Fri, 9 Jun 2000 19:07:52 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-89863-2000.06.09-18.26.09--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Fri, 9 Jun 2000, Stephen M. King wrote:

> The "Tiny-Web-Pages" service of APRSDATA is running on my system in the  
> Philadelphia area.  
> Anyone have ideas for other data we might keep?

Yes, Mcdonalds. I bet some hacker should be able to find a database of all of em. IT would be a good starting point for the local data base keyed to "FOOD". ... or "JUNK"...

:-)  
bob

---

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## 512. [aprssig] Oregon Scientific weather stations WM918 or WMR918 with APRS

From: "Paul-Andre Lambert" <[ve2pal@rac.ca](mailto:ve2pal@rac.ca)>  
Date: Fri, 9 Jun 2000 18:23:21  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-89864-2000.06.09-18.26.31--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Thank you for reading,

I would like to setup a weather station with my KPC3Plus on APRS without having a PC connected at all times. Someone has mentionned that the Oregon Scientific WM918 (same unit as the Radio Shack WX200) could do this. Is the wireless version WBR918 or any other weather station also able to do the same ?

Thank you and 73's  
Paul  
VE2PAL

---

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### 513. [aprssig] Re: APRSCE

From: James Smith <squirmy@kiva.net>  
Date: Fri, 09 Jun 2000 19:10:33 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89876-2000.06.09-19.16.26--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Can someone please send me the homepage address of APRSce, I remember Rob KZ5RW giving me his business card but I have missed placed it.

Thanks in advance.

73, James, K9APR  
Tri-State APRS Working Group / Chairman  
<http://www.tawg.org>

---

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### 514. [aprssig] APRSdata version DA2

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Fri, 9 Jun 2000 20:33:57 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89878-2000.06.09-19.37.35--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Three versions today. This last one forces NORMAL mode since we still have some softwares that do not properly decode the compressed format. The first versions of APRSdata sent out the objects compressed and users were reporting problems.

The latest will UNZIP to version DA2.

This is the only difference to DA1. But DA1 will revert to COMPRESSED every time it starts... :-(

Bob

---

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---

### 515. [aprssig] RE: Tracking after the fact from FINDU

From: pc@mds.com (Alfred Lee, Mail List Account)  
Date: Fri, 9 Jun 2000 17:41:34 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89881-2000.06.09-19.47.41--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi,

For your information I found a free CGI server at [www.mycgiserver.com](http://www.mycgiserver.com). You can upload your own Perl scripts.

Alfred

-----

From: Thomas M. Schaefer[SMTP:toms@inconnect.com]  
Reply To: Thomas M. Schaefer  
Sent: Friday, June 09, 2000 10:24 AM  
To: TAPR APRS Special Interest Group  
Subject: [aprssig] Tracking after the fact from FINDU

Well,

Here is what I discovered so far on producing a track of stations from FindU.

Street Atlas has the ability to import Lat Long positions from a text file. The format is as follows:

```
4035.32,-11151.28,Start,16,1,2
4037.32,-11151.28,2,16,1,2
4039.32,-11151.28,3,16,1,2
```

```
4041.32,-11151.28,4,16,1,2
4043.32,-11151.28,5,16,1,2
4045.32,-11151.28,6,16,1,2
4047.32,-11151.28,7,16,1,2
4049.32,-11151.28,8,16,1,2
4051.32,-11151.28,9,16,1,2
4053.32,-11151.28,10,16,1,2
4079.32,-11051.28,Finish,16,1,2
```

If you take that text (put it into a txt file), then in SA go open it, you can get a track of something. It is not a great track in that there is no connecting of the dots, but it is something.

For this to work, what we need is a cgi query that produces that text file. The query would ask for the duration of the track desired (date - date), and get the data that you can save into a text file. The format for those that want to help (from the help files...

-----  
NOTE: The Lat/Lon text file must be saved in an ASCII format and separated by commas in order to be imported into Street Atlas USA 6.0. The fields need to be in the order of: Lat, Lon, Name, Symbol Number, Size Number, Color Number. The Name, Symbol Number, Size Number and Color Number fields are optional. If none of these fields is specified, the points will display as small blue diamonds with no names  
-----  
-----

I am still looking for an Internet only solution, but this is what we have now. I am working on a query in Access to test this out, but findu seems to be down at the moment.

Since we all have aprs programs, this stuff could also be put into an APRS map and displayed if someone wants to tell us what format to put the lats/longs into.

Tom NY4I

---

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---

## 516. [aprssig] Re: Tiny Trak and Rand McNally GPS

From: "JSN" <kc8ffv@k8sn.org>  
Date: Fri, 9 Jun 2000 22:58:59 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89891-2000.06.09-21.59.45--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Yes works awesome.. I made a power plus from a mini din plug to goto 12v and then made a gps plug I think the pin out for the RM is 2 for data and 5 for ground. actually here are the pin outs for the data connector  
4800,8,n,1 pin 2 is out pin 3 is in, pin 5 is ground, power connectoer  
5-16v pin 4 + pin 3 neg. Jeff

---

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---

## 517. [aprssig] Re: Tiny Trak and Rand McNally GPS

From: "Eric Raub" <ki0mi@earthlink.net>  
Date: Fri, 9 Jun 2000 22:15:51 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89894-2000.06.09-22.20.03--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain



Thanks for the postive comments on the list. Got the RM tonight and the check is in the mail for the Tiny Tick. I was especially happy when I went over to purchase the RM GPS + Street Finder map combo pack and was expecting to pay \$99. Turned out to be \$93 with a \$20 mail in rebate. I'll struggle but I "think" I can live with that. :-)

'MI

----- Original Message -----

From: JSN <kc8ffv@k8sn.org>

To: Eric Raub <ki0mi@earthlink.net>; <aprssig@lists.tapr.org>

Sent: Friday, June 09, 2000 9:58 PM

Subject: Re: [aprssig] Tiny Trak and Rand McNally GPS

> Yes works awesome.. I made a power plus from a mini din plug to goto 12v  
> and then made a gps plug I think the pin out for the RM is 2 for data and  
5  
> for ground. actually here are the pin outs for the data connector  
> 4800,8,n,1 pin 2 is out pin 3 is in, pin 5 is ground, power connectoer  
> 5-16v pin 4 + pin 3 neg. Jeff  
>  
>  
>  
>

---

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---

## 518. [aprssig] RE: Tracking after the fact from FINDU

From: Steve Dimse <k4hg@tapr.org>

Date: Fri, 9 Jun 2000 23:37:34 -0500

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Message-ID: <LYR842-89903-2000.06.09-23.40.47--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

On 6/9/00 7:41 PM Alfred Lee, Mail List Account (pc@mds.com) wrote:

>If you take that text (put it into a txt file), then in SA go open it, you  
>can get a track of something. It is not a great track in that there is no  
>connecting of the dots, but it is something.  
>  
>For this to work, what we need is a cgi query that produces that text file.  
>The query would ask for the duration of the track desired (date - date), and  
>get the data that you can save into a text file. The format for those that  
>want to help (from the help files...

The cgi's don't ask, the data is passed as parameters, using either the GET or POST http methods. At the end of this message is the rawposit script to return raw data, all you'd have to do is change the query to get the lat/lon data instead of the raw data ("select lat,lon from position where ..."), and then print the output in whatever format you need.

This is left as an exercise for the reader!

Steve K4HG

-----

#!/usr/bin/perl

&ReadParse(\*input);

\$call = \$input{'call'};

\$call = uc(\$call);

\$start = \$input{'start'};

if (!\$start) {\$start = 24; }

\$length = \$input{'length'};

if (!\$length) {\$length = \$start; }

\$length = \$start if (\$length>\$start);

##### Connect to MySQL

use DBI;

```

$driver = "mysql";
$database = "aprs";
$host = "localhost";
$user = "guest";
$password = "";

$dsn = "DBI:$driver:database=$database:host=$host";
$dbh = DBI->connect($dsn,$user,$password);
$drh = DBI->install_driver("mysql");

my $statement = "select raw.text from position,raw where position.call
=\"$call\" and position.raw=raw.cnt ";
$statement = $statement . "and position.time_rx between
date_sub(now(),interval $start hour) and
date_sub(now(),interval ($start-$length) hour) order by position.time_rx
asc;";

$sth = $dbh->prepare($statement);
$sth->execute;

$numRows = $sth->rows;

print("Content-type: text/html\n\n");

print("<!DOCTYPE HTML PUBLIC \"-//W3C//DTD HTML 4.0 Transitional//EN\"
http://www.w3.org/TR/REC-html40/loose.dtd\">");

print("<HTML>\n");
print("<HEAD>\n");
print("<TITLE>$query Messages</TITLE>\n");
print("</HEAD>\n");

print("<BODY alink=\"#008000\" bgcolor=\"#F5F5DC\" link=\"#0000FF\"
vlink=\"#000080\">\n");

if ($numRows == 0)
{
    print("Sorry, no positions found for $call\n");
}
else
{
    while (my $ref = $sth->fetchrow_arrayref)
    {
        $text = $$ref[0];
        print("$text <br>\n");
    }
}
print("</BODY>\n");
print("</HTML>\n");

sub toDate
{
    my ($in) = @_ ;

    my $out = substr($in,4,2) . "/" . substr($in,6,2) . " " .
substr($in,8,2) . ":" . substr($in,10,2) . ":" .
substr($in,12,2) . "z";
    return $out;
}

sub ReadParse
{
    local (*in) = @_ if @_ ;
    local ($i,$loc,$key,$val);

    if ($ENV{'REQUEST_METHOD'} eq "GET") {
        $in = $ENV{'QUERY_STRING'};
    } elsif ($ENV{'REQUEST_METHOD'} eq "POST") {
        read(STDIN,$in,$ENV{'CONTENT_LENGTH'});
    }

    @in = split(/&/,$in);

    foreach $i (0 .. $#in) {
        $in[$i] =~ s/\+ / /g;
        ($key,$val) = split(/=/,$in[$i],2);
        $key =~ s/%(..)/pack("c",hex($i))/ge;
    }
}

```

```

        $val =~s/%(..)/pack("c",hex($1))/ge;
        $in{$key} .= "\0" if (defined($in{$key}));
        $in{$key} .= $val;
    }
    return 1;
}

```

---

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---

## 519. [aprssig] All Fired Up!

From: Steve Dimse <k4hg@tapr.org>  
 Date: Sat, 10 Jun 2000 00:37:32 -0500  
 To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
 Message-ID: <LYR842-89927-2000.06.10-00.40.44--lyris.aprssig#tapr.org@lists.tapr.org>  
 Rendered body type: text/plain

Well, I sure had a lot of fun at the Perl Whirl, and it got me excited again about working on the system. I have a few days worth of other things I need to take care of, but look for some big improvements over then couple weeks.

One I needed to get to now is to speed up the wx page display. As the weather reports have accumulated in the system (almost 3 million now!) the time for the system to display a weather page was getting quite long.

I have solved this by keeping a small table of the last 5 days of data. Requests for a 5 day or less display should now be quite fast, and will not continue to get slower, as had been the case. Display of periods longer than 5 days will still be slow, and get slower, but these are rarely used. I may grow the recent data to 10 days, I'll have to watch it to see how it goes.

If you have something you want added to the system, now is a good time to get those requests in, I'll be starting some serious work in a few days...

Steve K4HG

---

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---

## 520. [aprssig] KC APRS Web Site....

From: Jim Duncan <ku0g@kcaprs.org>  
 Date: Sat, 10 Jun 2000 00:59:46 -0500  
 To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
 Message-ID: <LYR842-89929-2000.06.10-01.03.11--lyris.aprssig#tapr.org@lists.tapr.org>  
 Rendered body type: text/plain

Repairs and upgrades continue on the site....Check out the new look and feel of the opening pages at <http://www.kcaprs.org>

NOTE: Clicking on the center of any compass rose will take you back to the Entrance Page!

Comments/suggestions welcome and encouraged!!!

I am having trouble getting the GPS images off of [www.garmin.com](http://www.garmin.com). They all come up as "invalid photo file" in my image processing program (MGI).

Any help here would be appreciated. I'm trying to capture the ETrex, GPS265 (color aereo version of GPS-III+), III+ and the GPS-35 TrakPack...

--  
 73 de Jim, KU0G  
 Chairman/Coordinator  
 Kansas City APRS Working Group, W0APR  
 First Alert Storm Team KMBC-TV9  
 Mailto:ku0g@kcaprs.org  
 Webpage: <http://www.kcaprs.org>

---

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---

## 521. [aprssig] FAQ

From: "Lee Dahlen" <kd4tqz@qsl.net>  
Date: Sat, 10 Jun 2000 05:50:23 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89938-2000.06.10-04.47.22--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

There is already a website in development. re: ur FAQ idea.

---

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---

## 522. [aprssig] NEW SIG Cont'd

From: "Lee Dahlen" <kd4tqz@qsl.net>  
Date: Sat, 10 Jun 2000 06:00:44 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89939-2000.06.10-04.57.36--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Scott Ratchford is doing the newbie website,

It has become obvious that most don't support a new sig.

Some do.

I will be avail. to help ANYONE that needs it. Just EMAIL me. I have the patience to answer same questions.

Lee/KD4TQZ

---

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---

## 523. [aprssig] Ok Its plotting now

From: "Brian B. Riley" <brianbr@macconnect.com>  
Date: Sat, 10 Jun 2000 08:30:53 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "Steve Dimse" <sdimse@netrox.net>  
Message-ID: <LYR842-89943-2000.06.10-07.33.12--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I changed nothing, but N1BQ-3 is now plotting on map.aprs.net as well as map.findu.com ... after some discussions with Steve I can only think it may have been some glitch near my local IGate or just a loooong running coincidence of what did and didn't get through ... my weather broadcasts were making it through as well as my D700 mobile (N1BQ-8) was digipeating through N1BQ-3 and getting recorded.

Regardless, it is working for now, will just watch and see how it goes.

Thanks all for the help and comments ... even those who asked what to many may have seemed like obvious questions, it forced me to examine and confirm every part of the posit report and that in itself is good.

--

Brian B. Riley, N1BQ (ex-KA2BQE)  
<<http://www.wulfdan.org>>

---

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---

## 524. [aprssig] Re: Ok Its plotting now

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Sat, 10 Jun 2000 10:19:36 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>,  
Steve Dimse <sdimse@netrox.net>  
Message-ID: <LYR842-89965-2000.06.10-09.22.48--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Sat, 10 Jun 2000, Brian B. Riley wrote:

> I changed nothing, but N1BQ-3 is now plotting on map.aprs.net as well  
> as map.findu.com ...

Were you running APRStk? It uses the COMPRESSED format. Are you now running APRSdata? It defaults back to NORMAL format since some other APRS software does not yet decode compressed format...?

Bob

---

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---

## 525. [aprssig] Re: Ok Its plotting now

From: Steve Dimse <k4hg@tapr.org>  
Date: Sat, 10 Jun 2000 10:26:43 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "Steve Dimse" <sdimse@netrox.net>  
Message-ID: <LYR842-89968-2000.06.10-09.29.50--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 6/10/00 9:19 AM Bob Bruninga (bruninga@nadn.navy.mil) wrote:

>On Sat, 10 Jun 2000, Brian B. Riley wrote:

>

>> I changed nothing, but N1BQ-3 is now plotting on map.aprs.net as well  
>> as map.findu.com ...

>

>Were you running APRStk? It uses the COMPRESSED format. Are you now  
>running APRSdata? It defaults back to NORMAL format since some other APRS  
>software does not yet decode compressed format...?

>

Neither APRServe or findu support compressed. It is high on the list for findu, and realistically will never get done for map.aprs.net.

However, that was not the problem in this case.

---

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---

## 526. [aprssig] Message Window problem w/WinAPRS

From: KB7AD0@aol.com  
Date: Sat, 10 Jun 2000 10:49:04 EDT  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89970-2000.06.10-09.52.20--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I've been setting up a "new" laptop I got recently with WinAPRS. For some reason, in the Message list window, none of the traffic is showing up in the bottom half of the window. If I move the cursor down the screen, the messages will be displayed on the top half, but still don't show up individually down below. I have tried several different versions of the main winaprs.exe file, but it hasn't made any difference. I can see them in the History list. Is there a particular file which might be missing that controls the message display? I've tried comparing the file listings with those in my other laptop, and they all seem to be there, but obviously something's not right.

Bob, KB7AD0

---

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---

## 527. [aprssig] APRSdata discoveries

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Sat, 10 Jun 2000 11:11:22 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89972-2000.06.10-10.14.58--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Three items:

- 1) When you send a QDOS Query for DIGI it returns the nearest WX and when you Query for WX, you get the nearest DIGI! ARGH! Will fix Mon.
- 2) The REAL advantage of APRSdata is that now MOBILES and HT's can access all of the remote WX sites that report only in raw PEET brothers format. In the past, this data was not decoded directly by the radios.
- 3) The NEXT data file I want to add to my system is the CLUB file. In the greater Wash/DC metro area, there are over 100 clubs! Just imagine anytime, anywhere when you are driving around in another part of town and have some time on your hands, you simply do a QDOS CLUB and back comes an OBJECT showing you their location, meeting times and FREQUENCY!

Anyone want to take the AUTOCALL magazine and start building the CLUB file for the Washington DC area??? (remember, you have to squeeze the freq and times into only 20 characters for display on the THD7's "tiny-web-page"... But it's easy!

```
+-----+
| AARC   |
| 1st Thurs |
| 147.105 |
+-----+
```

And remember that the Radio then computes the Direction and DISTANCE for you individually! You cannot even get that on the internet!

- 4) AND to properly do the ZIP codes, remember to download the entire zipped up zip code ZIP file and then pull out the ZIPS.xxx file just for your area. These are BIG files, and so you only want the ZIPS for your area only...

de WB4APR, BOb

---

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## 528. [aprssig] APRS Elmers Page....

From: Jim Duncan <ku0g@kcaprs.org>  
Date: Sat, 10 Jun 2000 11:48:49 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89993-2000.06.10-11.52.13--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

OK, gang....

I've started tackling the elmers page today. So far, I've given it the facelift and TRIED to update the changes that I REMEMBER (which weren't many!)...

I'd like to ask that ANYONE who is interested in being listed as an APRS Elmer to let me know today! Please include your preferred email address and the URL for your website (if you have one).

Those who are already on the list: Please check your information and send me your CURRENT information TODAY.... I've still got about 30 pages to get through and I am bound and determined to get it done and put it to bed this week. I will appreciate your prompt responses!

--

73 de Jim, KU0G  
Chairman/Coordinator  
Kansas City APRS Working Group, W0APR  
First Alert Storm Team KMBC-TV9  
Mailto:ku0g@kcaprs.org  
Webpage: <http://www.kcaprs.org>

---

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## 529. [aprssig] Scott Ratchford....

From: Jim Duncan <ku0g@kcaprs.org>  
Date: Sat, 10 Jun 2000 11:49:35 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-89994-2000.06.10-11.52.58--lyris.aprssig#tapr.org@lists.tapr.org>

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> Gerry & Marlynne.....K8GER...& KC8IGK..... with Priscilla above.....  
>  
> K8GER Repeaters Weather Information System 145.250 / 442.15 MHZ  
> ....Luzerne, MI  
> APRS - Digipeater on 144.390 and K8GER-9 Mobile  
>  
> My story on amateur radio....  
> <http://www.qrz.com/callsign.html?callsign=k8ger>  
>  
>  
>  
> ---  
> You are currently subscribed to aprssig as: jbbblack@mindspring.com  
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org  
>

---  
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---

### 534. [aprssig] Re: "Tiny Web Pages" Ideas

From: "Joel B. Black" <jbbblack@mindspring.com>  
Date: Sat, 10 Jun 2000 15:44:39 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90039-2000.06.10-15.50.39--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

What is the limit to what can be input, Bob? Stephen has really gotten my ideas started. Is there a limit to what can be input?

Tnx es 73,  
Joel, K2SAT

----- Original Message -----  
From: Stephen M. King <frastephen@home.com>  
To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Sent: Saturday, June 10, 2000 2:52 PM  
Subject: [aprssig] "Tiny Web Pages" Ideas

> Having had about 24 hours to think about this new application ;-) here are  
> some ideas...  
>  
> First, I began by trying to think of kinds of places I have tried to find  
> or places I thought people might want to find and that were not obvious  
> (i.e., every exit of the NJ Turnpike has a gas station ... not too big a  
> need here).  
> This could be a huge service to MAN-kind since we hate to ask for  
directions!  
>  
> 1. I like Bob's idea for a CLUBS service -- I could have used that in the  
> past!  
> 2. How about HOSPITALS -- could be helpful for public service work, too.  
> 3. Major tourist attractions -- e.g., navigating Philly trying to find the  
> Liberty Bell is not as easy as you would imagine!  
> 4. Police stations/barracks.  
> 5. Ham Radio stores other than RS (I suppose this data is already  
available  
> -- just need to set it up)  
> 6. I am in the "Church business" -- Churches and maybe a phone number or  
> service schedules would be helpful in vacation spots.  
> 7. Good fishing spots (good luck getting people to reveal them!)  
> 8. Campgrounds  
>  
> These are just meant to stimulate thought and creativity... they may not  
be  
> great ideas but might generate even better ideas!  
>  
> Peace es 73!  
> Stephen  
>  
>  
>  
> ---  
> You are currently subscribed to aprssig as: jbbblack@mindspring.com  
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org  
>

---

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org  
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---

## 535. [aprssig] Re: Version 2.4.6

From: "hasan schiers" <schiers@netins.net>  
Date: Sat, 10 Jun 2000 16:51:57 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90040-2000.06.10-16.55.09--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

With 2.4.7 it works as it always had. Left click and drag from destination to target...I get distance and bearing as always.

73

hasan schiers  
schiers@netins.net  
N0AN

----- Original Message -----

From: "Gerald A. Crawford" <gcrawfor@northland.lib.mi.us>  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Sent: Saturday, June 10, 2000 1:31 PM  
Subject: [aprssig] Version 2.4.6

>

> With the release of 2.4.6 I think we lost the ability to get a distance and  
> bearings of an object right from the mouse pointer. I used this a lot to  
> get distances and bearings. It is now replaced with station information. It  
> is near the bottom of the map screen. Now you get the icon of the station,  
> number of packets, first and last packets time stamp... Can we get both???

>

> Thanks

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> Gerry & Marlynne.....K8GER...& KC8IGK..... with Priscilla above.....

>

> K8GER Repeaters Weather Information System 145.250 / 442.15 MHZ

> ....Luzerne, MI

> APRS - Digipeater on 144.390 and K8GER-9 Mobile

>

> My story on amateur radio...

> <http://www.qrz.com/callsign.html?callsign=k8ger>

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---

## 536. [aprssig] Re: Version 2.4.6

From: rbost@itexas.net (Roy Bost)  
Date: Sat, 10 Jun 2000 17:08:16 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90042-2000.06.10-17.11.23--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Make sure that you have the full window selected (middle button in the upper right of the screen..overlapping squares).

You should have three lines of info on the bottom of the screen when you click on an icon.

Roy Bost N5TAM  
rbost@itexas.net

---

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### 537. [aprssi] APRSdata BETA

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Sat, 10 Jun 2000 18:16:29 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssi@tapr.org>, htapr@lists.tapr.org  
Message-ID: <LYR842-90045-2000.06.10-17.20.08--lyris.aprssi@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

New version fixes DIGI and WX reversal and adds FD and CLUB data. Of course, you will need to edit these files for your area... Since I did NOT have time to test it at all (I stole this time from Honey-dos) I posted it as:

<ftp://tapr.org/aprssi/dosstuff/APRSdos/adatbeta.zip>

Also, I am trying in this version to just IGNORE errors and let the program resume on its own... It will keep a running count of how often this occurs.. You will get the Orange Screen of death, but it should resume after 20 seconds...

Bob

On Sat, 10 Jun 2000, Bob Bruninga wrote:

> Three items:  
>  
> 1) When you send a QDOS Query for DIGI it returns the nearest WX and  
> when you Query for WX, you get the nearest DIGI! ARGH! Will fix Mon.  
>  
> 2) The REAL advantage of APRSdata is that now MOBILES and HT's can access  
> all of the remote WX sites that report only in raw PEET brothers format.  
> In the past, this data was not decoded directly by the radios.  
>  
> 3) The NEXT data file I want to add to my system is the CLUB file. In  
> the greater Wash/DC metro area, there are over 100 clubs! Just imagine  
> anytime, anywhere when you are driving around in another part of town and  
> have some time on your hands, you simply do a QDOS CLUB and back comes an  
> OBJECT showing you their location, meeting times and FREQUENCY!  
>  
> Anyone want to take the AUTOCALL magazine and start building the CLUB file  
> for the Washington DC area??? (remember, you have to squeeze the freq and  
> times into only 20 characters for display on the THD7's "tiny-web-page"...  
> But it's easy!  
>  
> +-----+  
> | AARC |  
> | 1st Thurs |  
> | 147.105 |  
> +-----+  
>  
> And remember that the Radio then computes the Direction and DISTANCE for  
> you individually! You cannot even get that on the internet!  
>  
> 4) AND to properly do the ZIP codes, remember to download the entire  
> zipped up zip code ZIP file and then pull out the ZIPS.xxx file just for  
> your area. These are BIG files, and so you only want the ZIPS for your  
> area only...  
>  
> de WB4APR, BOb  
>  
>  
>  
> ---  
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>  
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org  
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060  
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>

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From: "Gerald A. Crawford" <gcrawfor@northland.lib.mi.us>  
Date: Sat, 10 Jun 2000 18:18:31 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90046-2000.06.10-17.22.51--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Sorry guys..... Found the problem... Did not have the full window... Last line was buried... 73

( " - ' - / " ) . \_\_\_\_\_ . - - - - - ' ' ' ' - - - - -  
 ' 6 \_ 6 ) \_\_\_\_\_ ( ' ' ' ' ) . - - - - -  
 ( \_ Y \_ ) ' \_\_\_\_\_ ) \_\_\_\_\_  
 \_\_\_\_\_ - - - - - - - - - - / / - - - - -  
 ( i l ) , - - - - - ( l i ) , ' \_\_\_\_\_ ( l . - ' )

Gerry & Marlynn.....K8GER...& KC8IGK..... with Priscilla above.....

K8GER Repeaters Weather Information System 145.250 / 442.15 MHZ  
....Luzerne, MI  
APRS - Digipeater on 144.390 and K8GER-9 Mobile

My story on amateur radio....  
<http://www.qrz.com/callsign.html?callsign=k8ger>

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---

### 539. [aprssig] WinARPS Version 2.4.7

From: JD Delancy <[w3smd@drix.net](mailto:w3smd@drix.net)>  
Date: Sat, 10 Jun 2000 18:25:30 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-90048-2000.06.10-17.32.42--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I saw WinAPRS 2.4.7 mentioned today. Where is it available for download? I didn't see it on TAPR

---

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---

### 540. [aprssig] Re: WinARPS Version 2.4.7

From: "Joel B. Black" <[jbblack@mindspring.com](mailto:jbblack@mindspring.com)>  
Date: Sat, 10 Jun 2000 17:46:57 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-90053-2000.06.10-17.53.33--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

<ftp://aprs.rutgers.edu/pub/hamradio/APRS/WinAPRS/>

----- Original Message -----  
From: JD Delancy <[w3smd@drix.net](mailto:w3smd@drix.net)>  
To: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Sent: Saturday, June 10, 2000 5:25 PM  
Subject: [aprssig] WinARPS Version 2.4.7

> I saw WinAPRS 2.4.7 mentioned today. Where is it available for  
> download? I didn't see it on TAPR  
>  
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---

### 541. [aprssig] Re: "Tiny Web Pages" Ideas

From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
Date: Sat, 10 Jun 2000 18:48:58 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-90055-2000.06.10-17.59.35--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Sat, 10 Jun 2000, Stephen M. King suggested other data for APRSdata to serve as tiny-web-pages:

- > 1. I like Bob's idea for a CLUBS
- > 2. How about HOSPITALS
- > 3. Major tourist attractions TOURIST
- > 4. Police stations/barracks. POLICE
- > 5. Ham Radio stores other than RS there are some already in APRSdos...
- > 8. Campgrounds CAMP

I like em! my local APRSdos maps of Maaryland already has all the campgrounds. I can extract that for my CAMP.POS file....

Thanks, Bob

---

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## 542. [aprssig] Re: "Tiny Web Pages" Ideas

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Sat, 10 Jun 2000 19:01:02 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90056-2000.06.10-18.04.10--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Sat, 10 Jun 2000, Joel B. Black wrote about Tiny-Web-Pages.

> What is the limit to what can be input, Bob? Stephen has really gotten my  
> ideas started. Is there a limit to what can be input?

None at all. We came up with this idea back in 95, and added the ITEM  
format and the INFO ICONS for it, but APRSdos was full so we decided it  
would be best if Sprouls would add it to WinAPRS...

We both got too busy to ever get back to it. But I did add all of the  
OVERLAY files that I could come up with into basic APRSdos. But now  
that I have solved my T00-BIG problem buy just spinning off special purpose  
programs as needed, I can make my own... ergo APRSdata.

All you need to do is come up with a list, ANY LIST of items and put them  
in the format of the POS\\*.POS files. Then not only can you serve these  
data (one at a time) to D7 and D700 users, but you can view it yourself at  
any time with the MAPS-OVERLAY command.

To overlay any file that is not built-in, just hit MAPS-OVERLAY-OTHER

de WB4APR, Bob

---

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## 543. [aprssig] Re: "Tiny Web Pages" Ideas

From: "Brian P. Mileschosky" <n5zgt@swcp.com>  
Date: Sat, 10 Jun 2000 17:56:40 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90061-2000.06.10-19.00.16--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Just to play devil's advocate...in most places where APRS is extremely  
popular, won't these "tiny web pages" do a lot of congesting of the already  
busy APRS networks? Don't get me wrong...it all sounds great, but then  
again we are limited to one frequency, one data speed (since almost all of  
VHF APRS is 1200 baud on RF), lots of mobile stations sending reports across  
networks every 2-3 minutes, even more home stations and weather stations  
reporting once every 20-60 minutes...etc.

If I'm missing something, I apologize.

73,  
Brian, N5ZGT

---

|                                                                                                  |                                               |
|--------------------------------------------------------------------------------------------------|-----------------------------------------------|
| Boy Scouts of America                                                                            | Amateur Radio - N5ZGT                         |
| Eagle Scout 12/6/96                                                                              | ARRL QRP: NorCal #1700 QRP-L #580 AK/QRP #125 |
| ASM - Troop 41                                                                                   | Packet: N5ZGT PBBS, 145.05 MHz                |
| OA Lodge 66                                                                                      | Albuquerque, New Mexico                       |
| Yah-Tah-Hey-Si-Kess <-W-W-W-<                                                                    | Brother, Kappa Sigma Fraternity               |
| Please Visit my Homepage at: <a href="http://www.unm.edu/~brianm">http://www.unm.edu/~brianm</a> |                                               |

---

----- Original Message -----

From: Stephen M. King <frastephen@home.com>  
To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Sent: Saturday, June 10, 2000 1:52 PM  
Subject: [aprssig] "Tiny Web Pages" Ideas

```

> Having had about 24 hours to think about this new application ;-) here are
> some ideas...
>
> First, I began by trying to think of kinds of places I have tried to find
> or places I thought people might want to find and that were not obvious
> (i.e., every exit of the NJ Turnpike has a gas station ... not too big a
> need here).
> This could be a huge service to MAN-kind since we hate to ask for
directions!
>
> 1. I like Bob's idea for a CLUBS service -- I could have used that in the
> past!
> 2. How about HOSPITALS -- could be helpful for public service work, too.
> 3. Major tourist attractions -- e.g., navigating Philly trying to find the
> Liberty Bell is not as easy as you would imagine!
> 4. Police stations/barracks.
> 5. Ham Radio stores other than RS (I suppose this data is already
available
> -- just need to set it up)
> 6. I am in the "Church business" -- Churches and maybe a phone number or
> service schedules would be helpful in vacation spots.
> 7. Good fishing spots (good luck getting people to reveal them!)
> 8. Campgrounds
>
> These are just meant to stimulate thought and creativity... they may not
be
> great ideas but might generate even better ideas!
>
> Peace es 73!
> Stephen
>
>
>
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>

```

```

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```

## 544. [aprssig] APRS Tiny-Web-Page Examples

```

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 10 Jun 2000 20:01:46 -0400 (EDT)
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@tapr.org>, htapr@lists.tapr.org
Message-ID: <LYR842-90062-2000.06.10-19.05.32--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

For those of you without a D7, here is what some of these Tiny-Web-Pages (TWP's) look like on the Handheld. The handheld displays the data on as many as 5 sub-pages. The D700 mobile has a much larger front panel and displays it all one one page. I will show only the small HT screen in these examples... Fuzzy photos are on the following WEB page:

<http://web.usna.navy.mil/~bruninga/satinfo.html>

Set your Email to display FIXED FONT, 80 columns!  
The first two examples are what APRSdata.exe "pushes" to all users on the terrestrial APRS frequency. The first one once a minute when a satellite is in view. The second once every 10 minutes to the DX LIST.

```

+-----+ +-----+ Satellite-in-view PAGE
| A027   | | 1:A027   | Showing Up and Down freqs plus doppler
| 145.85 -2 | | FM18RX   | Showing Range and direction
| 435.795 +6 | | * 1028mi ->| Other page (not shown) shows CSE and SPD
+-----+ +-----+

```

When the satellite gets to within about 1000 miles, you can work it from the mobile or the HT usually..

```

+-----+ Future PASS predictions updated every 10 minutes
| U022@1435 | as listed in the D7's DX list showing all FM satellites
| S035@1453 | expected in the next 80 minutes

```

```
| U014@1532 |  
+-----+
```

The following examples show the type of information that can be delivered to the TH-D7 handheld display in response to a Query. The first screen is the "immediate" screen that summarizes the data the instant the packet comes in. It is displayed for 10 seconds. After that, it is stored in the STATION LIST along with the last such 40 items. Each such ITEM has actually 5 "Tiny-Web-Pages" of detail. Only the first two are shown here. The others show exact LAT/LONG, and CSE/SPEED and other data..

```
+-----+ +-----+ In response to a CLUB query  
| AARC | | 1:AARC | The * is an actual ICON graphic  
| 3rd Thurs | | FM18RX | and the -> is a compass rose  
| 147.105 | | * 13.6mi ->| showing the direction  
+-----+ +-----+  
+-----+ +-----+ Location of the nearest Radio Shack  
| RS | | 3:RS | in response to a RS query.  
| OBJECT | | FM18CD |  
| fm:WB4APR | | * 3.6mi <-|  
+-----+ +-----+  
+-----+ +-----+ In response to a NWR Query  
| NOAA | | 1:NOAA | shows nearest NOAA WX radio station  
| 164.250 | | FM18RX | and frequency  
| | | // 13.6mi v |  
+-----+ +-----+  
+-----+ +-----+ Each home WX station transmits these  
| N8ADN | | 5:N8ADN | every 10 minutes or so, or you can  
| WEATHER | | dir015 s13m| do a Query to get the closest one to  
| | | t043F r0.01"| you at any time... It shows WIND speed  
+-----+ +-----+ and direction, TEMP and RAINFALL
```

Will this overload the APRS frequency? No. Each such query response is only a SINGLE 1 second packet. (Locally generated and managed.)

Home stations don't need it. ALL of this data is already built into every copy of APRS(dos), so anyone running at home already has access to this data on his screen. These TWP's are only for the mobile who does NOT have a running APRS laptop. Thus it is a small number of users that will be requesting data at any time. Even during COMMUTER hours, less than 10% of all stations on the air are mobiles...

Oh the fun we will have building these TWP databases of AMATEUR RADIO RELATED or HAM TRAVELER data for users...!

de WB4APR, Bob

---

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## 545. [aprssig] Re: "Tiny Web Pages" Ideas

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Sat, 10 Jun 2000 20:09:18 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90066-2000.06.10-19.12.49--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Sat, 10 Jun 2000, Brian P. Mileschosky wrote:

> Just to play devil's advocate...in most places where APRS is extremely  
> popular, won't these "tiny web pages" do a lot of congesting of the already  
> busy APRS networks?

No. Although it is very exciting, I dont think it will be used that much. But when it IS needed, the DATA is there. Rememnber, this is only for the D7 or D700 user WHILE MOBILE. In any one local area, I would estimate that less than 2% of the users on the air fit this category and MOST are commuting and dont need this info. This is for the occasional traveler in a new area.

Yes, there will be a surge now while people explore this new capabiliity, but after things settle down, I doubt you will see more than a few queries per day in your area...



Remember ALL Of this DATA already is built-in to every copy of APRSdos and presumably the other programs, so HOME stations or anyone with a LAPTOP already has it all. And many mobiles are TRACKERS and they cannot use it either...

So, no, I dont think it will be a problem at all. Anyway, APRS was designed to SERVICE MOBILES. These TWP's seem to be a perfect application for APRS...

de WB4APR, BOb

---

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## 546. [aprssig] FS:TNCs/Citadel computer/2m radio - REDUCED

From: Mark Sailer <msailer@buoy.com>  
Date: Sat, 10 Jun 2000 21:20:33 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90070-2000.06.10-20.23.42--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Here's a list of equipment that is surplus to my needs.  
Prices INCLUDE shipping/insurance.

1 - Citadel 486-50 computer \$95 shipped  
1- Kantronics KPC-3 /manuals/original box/cables - SOLD  
1- MJF1270B TNC/manual/wall wart/cables \$75 shipped  
1- MFJ 1270B TNC/2400 baud modem/maual/wallwart/cables \$75 shipped  
1-Alinco DR-1200 Data Radio \$110 shipped

Email me directly if interested

TNX

====

Mark Sailer, N2JTW msailer@buoy.com  
Lake Grove L.I., NY

---

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## 547. [aprssig] Mobile Winaprs Operation.

From: "Jake" <jake@trib.com>  
Date: Sat, 10 Jun 2000 19:40:22 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90075-2000.06.10-20.41.03--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi All,

I just switched from dosaprs to winaprs for mobile use.

How do you keep the coordinates that are in the Settings/Station from being transmitted when traveling? I currently have the Settings/Position Report Rate set to all '0's. I'm not sure if that's working.

How should the setting be set for GPS use when using a ESP cable with a KPC-3+? (Extra Serial Port). I am currently running; GPS/NMEA enabled under Settings/Winaprs/Automatic Input and that is all. I also had to set MXMIT ON so I could see myself without being digi'ed. These setting seem to work. Any better ideas?

Thanks

Tim/KJ7AZ

---

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## 548. [aprssig] Re: Mobile Winaprs Operation.

From: "Jeff Brenton" <jeffb@espi.com>  
Date: Sun, 11 Jun 2000 01:53:00 -0000

```
> how do I prevent WinAPRS from sending Station settings position even when
mobile?
```

```
> KPC3+ settings
```

Jeff Brenton, Amateur Radio call sign KA9VNV  
<http://espi.com>  
 Questionable web page: <http://dididahdahdidit.com>

#### 549. [aprssig] NEW SIG Clarification.

I just saw my last post again and I hope I was not misunderstood. I very much support Scott's new Website. I think it is a big job. More than I can even fathom doing!!! I only mentioned that in my last post, to say to the Newcomers. That while I don't see a new sig on the way, There are other avenues that are. Keep an eye out for Scott's website, as I am anxiously awaiting to see it and link to it. From what I have heard. It should help!!!

Lee/KD4TQZ

**550. [aprssig] RE: [htaprs] Re: building \*.pos files**

Someone (maybe Bob, APR) had asked about possibilities for .POS files.

For my county, there are about 15 municipalities plus the 3 hospitals, and the County EOC. This makes a small .POS file for me to have on tap if running APRSdata at the EOC (N2IPH-15). If the other 20 counties in NJ did this, the state would be well covered, and as Bob said, if someone is between two data servers, then they would get a choice of which hospital to head for (or whatever).

73...Bob

'95 AM General Hummer

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> I just saw my last post again and I hope I was not misunderstood. I  
very  
> much support Scott's new Website. I think it is a big job. More than I  
can  
> even fathom doing!!! I only mentioned that in my last post, to say to the  
Newcomers. That while I don't see a new sig on the way, There are other  
> avenues that are. Keep an eye out for Scott's website, as I am anxiously  
> awaiting to see it and link to it. From what I have heard. It should  
> help!!!  
>  
> Lee/KD4TQZ  
>  
>  
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### 553. [aprssig] APRS Tiny-Web-Page Examples

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Sat, 10 Jun 2000 23:57:22 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@tapr.org>, amsat-bb@amsat.org  
Message-ID: <LYR842-90086-2000.06.10-23.01.03--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I know you are getting tired of this, but one thing I left out of the  
Tiny-Web-Page (TWP) examples are of course:

- 1) DX SPOTS. Both radios will capture and display DX SPOTS when tuned  
to a DX cluster frequency
- 2) APRS Stations. And of course, every APRS station on the air is  
displayed as a 5 window "tiny-web-page"...

So I just thought of another QUERY-Response. If you "Query DX" then what  
you get back on the APRS channel is a "TWP" showing you the nearest DX  
Cluster, its Frequency, and its direction and distance from you.

Right now I sure could use this information. I wanted to tune in a DX  
spot to capture an example for this Email, but I have no clue what  
frequency they are on. Sure would have been nice to do a QDOS DX and have  
the answer back in a few seconds... :-)

Does anyone know where we can get a list of the LAT/LONG and FREQ of every  
DX cluster???

de WB4APR, B0b

P.S. I only cross posted this to the AMSAT-BB because of the SATELLITE  
Tracking and SATELLITE SCHEDULE which were the original idea behind these  
"TWP's". The fact that they are forced to all users shows how great a  
resource these are for all satellite operators...

>From now on, I will try to contain my enthusiasm :-)  
and keep it over on the APRS sig as this concept further develops...

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---

### 554. [aprssig] Fried Friday

From: David VanHorn <dvanhorn@cedar.net>  
Date: Sun, 11 Jun 2000 02:24:34 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90131-2000.06.11-02.28.59--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----  
Hash: SHA1

I am recovering from a major crash.

As part of that recovery, the system that I usually Igate with is offline. I'm trying to move WAPRS over to my main machine.

I have it installed, using an entrega USB-Serial port as COM3, to a KPC-3. Hardware handshaking is on (dosen't seem to matter)

I get chars from the TNC very slowly, one per char I send to the tnc. The TNC interface seems to work outbound, in that the TNC transmits as you would expect if I tell it to send a query, but it's essentially useless on receive.

Anyone have hints on USB serial ports with WAPRS?

I need another detour like I need a hole in the head at this time, it's been nothing BUT detours since early friday.

- - -

Are you an ISP? Tired of spam?  
www.spamwhack.com A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----

Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBOUNa0oF1GDz116VWEQKu2gCbBTawBrQHfRUFafqSHd5/3Yx0axcAn3E5  
R+mL5TKb7iemQyJCh76WI7gj  
=L8Es

-----END PGP SIGNATURE-----

---

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---

## 555. [aprssig] Re: "Tiny Web Pages" Ideas

From: "Ev Tupis (W2EV)" <[propnet@greeceny.com](mailto:propnet@greeceny.com)>  
Date: Sun, 11 Jun 2000 07:48:41 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-90138-2000.06.11-06.48.29--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I have to admit that I just started reading the TWP thread, halfway through, so I'll go back and re-read them. This is truly interesting, for what I've read. Bob's got a keeper here, for sure.

Another idea: accessible hilltops/high points/panoramic vistas

OK...my VHF/uWave contesting side is showing <grin>. Actually, I spoke with the ARRL's contest manager on Friday. He said that he supported the use of APRS for the uWave contests. I've been evangelizing its' use there recently.

Now...back to read the early posts on this thread. :o)  
Ev, W2EV

PS-Bob...great feature!

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## 556. [aprssig] What's Best? in 10 words or less

From: "Lumpy" <[lumpy@digitalcartography.com](mailto:lumpy@digitalcartography.com)>  
Date: Sun, 11 Jun 2000 06:40:19 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-90142-2000.06.11-07.38.17--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Re: The Current Thread..."New Sig"

I picture a question like -  
"What should my UI path be?"



... Well, close enough anyway. The APRSdos MM system should get you to within a mile or so. Its built in for the whole country.

But if you are serious about APRSdata for your local area, it can be easily improved to 0.1 mile accuracy or better by simply adding finer detail in the data base for your area.

de WB4APR, Bob

---

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## 559. [aprssig] Re: APRS Tiny-Web-Page Examples

From: "David G. Henderson" <[daveh@erie.net](mailto:daveh@erie.net)>  
Date: Sun, 11 Jun 2000 10:13:38 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-90151-2000.06.11-09.18.03--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 10 Jun 2000, at 23:57, Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)> wrote:

> I know you are getting tired of this,

Nope

> but one thing I left out of the TIny-Web-Page (TWP) examples are of  
> course:

[snip]

> 2) APRS Stations.

3) Digipeaters and the best path for trackers to use for that area!

73, Dave, N3EOY  
<mailto:daveh@erie.net>

---

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## 560. [aprssig] APRS Event List 6-11-2000

From: K3for@aol.com  
Date: Sun, 11 Jun 2000 10:35:38 EDT  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-90154-2000.06.11-09.38.50--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

View fixed-character width for even columns.  
Skip/K3FOR

| DDMM  | LOCAT | START/STOP/DUR      | FREQS USED  | CALLS                             | EVENT                                                                                                                                                            |
|-------|-------|---------------------|-------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 17JUN | KC,KS | 0700CDT             | 144.340     | KA0JLF-11<br>N3KKM-11<br>N9XTN-11 | TRIPLE APRS BALLOON LNCH<br>EMAIL: <a href="mailto:n3kkm@kcnet.com">n3kkm@kcnet.com</a><br><a href="http://www.kcnet.com/~n3kkm">http://www.kcnet.com/~n3kkm</a> |
| 19JUN | USA   | 0800PDT to<br>AUG 6 | APRS VHF/HF | KE7A-9                            | American Lung Association<br>Big Ride Across America                                                                                                             |
|       |       | Seattle to Wash DC  |             |                                   |                                                                                                                                                                  |

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## 561. [aprssig] TWeRP (Tiny Web Resource Page)

From: "BobD" <[BobD@virtualconst.com](mailto:BobD@virtualconst.com)>  
Date: Sun, 11 Jun 2000 11:28:53 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-90165-2000.06.11-10.32.54--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Here's some other possible abbreviations for TWeRP (Tiny Web Resource Page) queries;

Page 320



> Here's some other possible abbreviations for TWeRP (Tiny Web Resource Page)  
 >  
 > HOSP = Hospital location and telephone number  
 > PD = Police Station (Local/Municipal) location and telephone number  
 > SP = State Police Station/Barracks locations and a telephone number  
 > EOC = EOC Locations and local government OEM freq.  
 > VHF = List of local 2M voice repeaters, location, freq., etc.  
 > UHF = List of local 440 voice repeaters, location, freq., etc.  
 > 6M = List of local 6M voice repeaters, location, freq., etc.  
 > ATV = List of local ATV repeaters, location, freq., etc.  
 > BBS = List of local 2M packet BBS, location, freq., etc.  
 >  
 > Question for Bob(APR): If the data is served up (from the .POS file) with a  
 > 4 or 6 place grid sq. [FM29 or FM29jk], will the location be calculated  
 > correctly on the D7/D700 or must it be lat/lon? I'm thinking of repeaters  
 > that may not want to give their exact location out.

No. Just enter the data in the database with SPACES in the LSB bytes and this is the format for Position Ambiguity. You can indicate ambiguity of 0.1, 1 and 10 miles

> Also, can QDOS be abbreviated to just Q?

No, I thought about that, but by choosing QDOS, I wanted to leave the field open for other authors with other ideas...

de WB4APR, Bob

---

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---

## 563. [aprssig] TWP's for County Emergency Assets

From: Bob Bruninga <bruninga@nadn.navy.mil>  
 Date: Sun, 11 Jun 2000 12:28:54 -0400 (EDT)  
 To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
 Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
 Message-ID: <LYR842-90173-2000.06.11-11.32.06--lyris.aprssig#tapr.org@lists.tapr.org>  
 Rendered body type: text/plain

Someone suggested a file of all the County OEM resources for our TWP's. This does make a GREAT POS\\*.POS overlay file for normal APRS users, since they can see all the objects at once on their map screen using the OVERLAY command...

But remember that the remote D7 or D700 user can only see the nearest one to him. Thus each category of item must be in an individual file with only other like items in the same category. Thus, if he asks for shelters, he gets the nearest shelter.

If they are all lumped into one file (as they can be for APRSdos users) then he might ask for "OEM" and get the nearest police station, when what he wanted was shelters...

So it all depends on what data you want and how you organize it.

I am beginning to think that we might allow an option for the nearest N objects where "N" is limited to 1, 2 or 3. Thus QDOS RS 2 would return The TWO nearest Radio Shacks.

But for now I don't want to do this for fear of criticism of net capacity. Let's wait a while and see if this crazy idea turns out to be truly useful or not...

By the way, APRSdata LOGS the number of Queries per hour on the HEARD log. So SYSOPS can see if users are using it or not.  
 de WB4APR, Bob

---

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## 564. [aprssig] Re: APRS Tiny-Web-Page Examples

From: David Nesting <david@fastolfe.net>  
Date: Sun, 11 Jun 2000 11:35:41 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90178-2000.06.11-11.38.51--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Sun, Jun 11, 2000 at 10:13:38AM -0400, David G. Henderson wrote:  
:  
: 3) Digipeaters and the best path for trackers to use for that area!

Oo!

I wonder if someone can come up with an abstract algorithm for determining this? Given a position P, return like a generic path 'RELAY,WIDE' or something more specific 'X1ABC,Y2DEF-1'? Base this on coverage information for each station (including the one requesting it). Sorta like DHCP for APRS.

On the other hand, if there's a "best" locally-determined path, it might be simpler to just let the operator code this in..

David

--  
== David Nesting WL7RO Fastolfe david@fastolfe.net http://fastolfe.net/ ==

--  
Hi! I'm a .signature virus! Copy me into your ~/.signature to help me spread!

---  
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## 565. [aprssig] Field Day 2000 APRS Briefings

From: "Kent Hufford" <khufford@erols.com>  
Date: Sun, 11 Jun 2000 16:47:48 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "Dennis Catalano" <CatalanoDE@NAVSEA.NAVY.MIL>  
Message-ID: <LYR842-90189-2000.06.11-11.51.02--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Ok, Our club, Woodbridge Wireless Inc, VA, will have an APRS station during Field Day!

So, I'm setting up the station. Would like to build a "Science Project" poster board to "explain" APRS to the great unwashed standing around.

I know there are some great PowerPoint briefings that I could lift the "story" from and put on the foam board to liven up the position.

Any suggested sites for GOOD briefings?

thanks in advance,

Kent  
KQ4KK  
khufford@erols.com

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## 566. [aprssig] use GPS on HONDA Accord for APR

From: "Mario Armando Natali" <manatal@tin.it>  
Date: Sun, 11 Jun 2000 19:39:43 +0200  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90208-2000.06.11-12.48.03--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi !

Anybody can help on following subject ?  
I have a car that got the GPS built in ; it is an Honda Accord: is it possible to use this built-in GPS for APR ? Any idea who to contact ?  
Needless to say I tried asking schematic to the local Honda rep....with very

low success !!!

Thanks in advance and best 73 de i0naa, Mario

---

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---

## 567. [aprssig] Re: use GPS on HONDA Accord for APR

From: Ian Wade <Ian.Wade@care4free.net>  
Date: Sun, 11 Jun 2000 19:17:29 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90212-2000.06.11-13.22.19--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In article <LYR14778-90208-2000.06.11-12.48.03--Ian.Wade#care4free.net@lists.tapr.org>, Mario Armando Natali <manatal@tin.it> writes  
>  
> Hi !  
>  
> Anybody can help on following subject ?  
> I have a car that got the GPS built in ; it is an Honda Accord: is it  
> possible to use this built-in GPS for APR ? Any idea who to contact ?  
> Needless to say I tried asking schematic to the local Honda rep...with very  
> low success !!!  
>

Hi Mario. It is possible that the GPS unit is made by Aisin. If so (and if you can make the necessary connections to it :-)) then you could try the UI-View program for APRS, as this supports the Aisin unit.

UI-View is at <http://www.packetradio.org.uk>

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

\*\*\*\*\* Third draft now available \*\*\*\*\*

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

---

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## 568. [aprssig] mail question

From: "w5hir" <w5hir@ghg.net>  
Date: Sun, 11 Jun 2000 13:48:18 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90216-2000.06.11-13.51.12--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I recently had a crash of my HD. I had backed everything up on tape, and restored the IE5. Guess what?  
All of my saved stuff along with much APRS data etc and the address book was blank. Is there someplace else that the data is stored other than Outlook express???

Foxy

w5hir@ghg.net

---

## 569. [aprssig] Re: mail question

From: "Jim Gill" <jimgill@ix.netcom.com>  
Date: Sun, 11 Jun 2000 13:58:23 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90218-2000.06.11-14.01.36--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>>>I recently had a crash of my HD. I had backed everything up on tape, and restored the IE5. Guess what? All of my saved stuff along with much APRS data etc and the address book was blank. Is there someplace else that the data is stored other than Outlook express???

Looks like my Outlook Express mail is in

\windows\profiles\username\Application  
Data\identities\longstring\Microsoft\Outlook Express

sub your logged in username for username, and there is a big long alphanumeric string enclosed within { } for longstring. Should be something similiar... it will be buried in a profile folder or Application Data folder off of \%windir%\

Jim NØRMO

---

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## 570. [aprssig] Map Blast Invalid Location

From: "Luca Padroni" <iz5axt@amsat.org>  
Date: Sun, 11 Jun 2000 22:08:28 +0200  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90230-2000.06.11-15.11.56--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I have noticed that if I try to click on a image of the station location (eg. from the page with a location: map.aprs.net/steve) I receive from map blast server the message Invalid Location.

Any idea??

The same thing happens using winaprs web server.

Luca, iz5axt

---

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---

## 571. [aprssig] Mercedesw ML-320 Built In GPS

From: "Larry Zanella" <larry.zanella@attws.com>  
Date: Sun, 11 Jun 2000 16:4:21  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90241-2000.06.11-16.07.32--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I own a Mercedes model year 2000 ML-320 (SUV). It has the built in GPS, which is made specifically for Mercedes by Alpine. Does anyone know if this unit outputs NMEA 0183 V 2.0 compatible data, so I could use it on APRS with my D700? I don't care about input to the GPS, as I have no need to display icons, etc. I just want to use it for reporting my position.

Right now I am using the Garmin GPS 35-PC which is a wonderful unit, but if I could use the built in Mercedes unit, I'd avoid the second antenna and associated wiring, etc.

Now is the time to decide since I have NOT yet done the permanent install.

Larry

---

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## 572. [aprssig] Igates stripping unprintables... again

From: "Jim Gill" <gillj@uswest.net>  
Date: Sun, 11 Jun 2000 16:51:58 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90246-2000.06.11-16.55.12--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

KH2Z, note to you at the end... now on to the data...

Connected to n9uur.aprs.net:23 with WinAPRS 247 on RF and as an Igate. In the example below, in the winaprs history list, the first packet is Blue (from TNC) and the next two packets are Green (Igated to TCP/IP).

NØRMO-15>TQRQ3U:'{W=1 K\}

```
NØRMO-15>APK101:@112003z4121.35N\09559.31WK000/000/Mic-E/M0/Off duty>
NØRMO-15>TQRQ3U:'{W=l K\}
```

Note on the third packet that either WinAPRS or the n9uur.aprs.net server is echoing back the raw D700 packet, but with the unprintable character stripped.  
Currently, the above example shows my icon jumping back and forth between the Kenwood "K" and the DF triangle.

```
NØRMO-15>TQRQ3U:'{W=l v/}
NØRMO-15>APK101:@112057z4121.35N\09559.31Wv000/000/Mic-E/M0/Off duty>
NØRMO-15>TQRQ3U:'{W=l v/}
```

With this example above, I jump back and forth between the VAN (first/second packet) and a DOT (third packet).

My D700 was set with the Packet Path \*empty\* so I could be sure my Igate was the only one sending data to aprsserve.

So the jumping positions and jumping icons are still the result of various broken aprsservers stripping unprintable characters. This was an issue long ago when the Kenwood radios first came out, but not all Igates or servers have implemented fixes.

I want to hear your "Simple" fix, Brent, and the reasons given why it won't be implemented.

Jim NØRMO

---

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## 573. [aprssi] first.aprs.net:23 not allowing logons

```
From: "Jim Gill" <gillj@uswest.net>
Date: Sun, 11 Jun 2000 18:20:39 -0500
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>
Message-ID: <LYR842-90266-2000.06.11-18.24.00--lyris.aprssi#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

Not all aprsserve servers are allowing Logons to WinAPRS 247 clients, as far as I can see. When you I logon to aprsserve using WinAPRS, you normally see in the message list something like this:

```
APRSERVE USERLIST 4563 1 06/11 17:54 Verified user NØRMO logged on using
WinAPRS 2.4.7.
```

When you are successfully verified and logged in, then you can pass traffic to aprsserve as an Igate (if configured as such). You can tell you are passing traffic, usually because any traffic in Blue in the history list is repeated immediately below or soon after in Green, indicating your Igate passed in on to the feed. In busier areas with more than one Igate, it's a little harder to tell but with experience you can.

The following is a list of servers and the information about whether I am able to log in or not.

```
first.aprs.net:23
aprsdMIA javaMSG 1 06/11 18:16 Miami_FL Linux APRS Server: 205.184.127.183
connected 100 users online.
```

```
second.aprs.net:23
APRSERVE USERLIST 4594 1 06/11 18:17 Verified user NØRMO logged on using
WinAPRS 2.4.7.
```

```
third.aprs.net:23
APRSERVE USERLIST 4595 1 06/11 18:17 Verified user NØRMO logged on using
WinAPRS 2.4.7.
```

```
n9uur.aprs.net:23
APRSERVE javaTITLE 1 06/11 18:18 APRServe 0.9 build 825 de K4HG
APRSERVE USERLIST 13501 1 06/11 18:18 Verified user NØRMO logged on using
WinAPRS 2.4.7.
```

second.aprs.net:23 was not giving "verified" connections earlier but seems to be working now. So first.aprs.net:23 (and therefore www.aprs.net:23)

won't allow you to pass traffic IN to the stream as an Igate.

Jim NØRMO

---

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## 574. [aprssig] FS:TNCs/Citadel computer/2m radio - All sold

From: Mark Sailer <msailer@buoy.com>  
Date: Sun, 11 Jun 2000 20:31:11 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90278-2000.06.11-19.34.26--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

ALL SOLD

TNX

====

Mark Sailer, N2JTW           msailer@buoy.com  
Lake Grove L.I., NY

---

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## 575. [aprssig] Setting up an Igate?

From: WCovey@aol.com  
Date: Sun, 11 Jun 2000 21:11:20 EDT  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90284-2000.06.11-20.14.39--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Not sure to whom or what group to direct this question to, so hopefully I will get an answer.  
What settings do I need to pass on to my network administrator, that will allow my station, W1TYL, to act as a 7/24 Igate?  
I like this to be in place before summer vacation starts. Local Igate, that is being run by W4HFZ, may not be on all summer or may go away when and if he is ever transferred. Has been a great asset to the local APRS network here in SE CT and I'd like to be ready.  
I'm behind a firewall, with a full time Internet connection. Not a modem line. I have no problem when I'm connected via AOL using a modem. I have had no luck getting connected using WinAPRS and opening ports 10151 etc. I don't even see any stations on port 23.  
I really don't know enough about firewalls, telnets, TCP/IP to pass any information on to my NA. Also the NA is very paranoid about receiving viruses and putting holes in the firewall.  
Or where can I go to get the answer?

Thanks in advance. Bill, W1GTT

---

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---

## 576. [aprssig] Reverse Gating NWS data

From: "Jim Gill" <jimgill@ix.netcom.com>  
Date: Sun, 11 Jun 2000 20:39:58 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90286-2000.06.11-20.43.20--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I can't get any recent WinAPRS version to reverse-gate any of Dale's EMWIN warnings/objects data on APRServe to RF. It worked a few weeks ago for another severe weather event... but it won't work tonight with approaching severe weather.

My stations.txt has not changed from before (YES, tabs between)...

GIDSVR IGATE  
OAXSVR IGATE  
LBFSVR IGATE  
LBFSVS IGATE  
OAXSVS IGATE  
GIDSVS IGATE

OAXTOR IGATE  
GIDTOR IGATE  
LBFTOR IGATE

I am getting logged on and validated from the server, and I am passing data into the stream. Enable 3rd party outgoing traffic is checked ON. I know Dale made a recent TOCALL adjustment... his data goes to SKYW... does that change affect reverse-gating ability?

Thank you

Jim NØRMO

---

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## 577. [aprssig] Re: Reverse Gating NWS data

From: "Jim Gill" <jimgill@ix.netcom.com>  
Date: Sun, 11 Jun 2000 20:55:59 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: <aprssig@tapr.org>  
Message-ID: <LYR842-90288-2000.06.11-20.59.21--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Yep, that did it, anything above 2.4.3 won't reverse gate SKYW data. 243 does work! Thanks, Jim!

Jim NØRMO

----- Original Message -----

From: "Jim Duncan" <ku0g@kcaprs.org>  
To: "Jim Gill" <jimgill@ix.netcom.com>  
Sent: Sunday, June 11, 2000 8:45 PM  
Subject: Re: [aprssig] Reverse Gating NWS data

> It only seems to work on 2.4.3, Jim.... I can't get 2.4.7 to work  
> either..  
>  
> --  
> 73 de Jim, KU0G  
> Chairman/Coordinator  
> Kansas City APRS Working Group, W0APR  
> First Alert Storm Team KMBC-TV9  
> Mailto:ku0g@kcaprs.org  
> Webpage: <http://www.kcaprs.org>

---

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---

## 578. [aprssig] Check Elmers page, please...

From: Jim Duncan <ku0g@kcaprs.org>  
Date: Sun, 11 Jun 2000 21:32:45 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90293-2000.06.11-21.36.10--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

If you have sent me an email for Elmers updates in the past four days, please check the page for accuracy tonight! If I don't hear from you I will assume it's OK....

<http://www.kcaprs.org/elmers>

Work is progressing along and I hope to get the site completely finished by next weekend.

I DO need links to other sites, so please email me OFF LIST if you'd like a link added to our site!

--

73 de Jim, KU0G  
Chairman/Coordinator  
Kansas City APRS Working Group, W0APR  
First Alert Storm Team KMBC-TV9  
Mailto:ku0g@kcaprs.org

Webpage: <http://www.kcaprs.org>

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### 579. [aprssig] Fixed url...

From: Jim Duncan <[ku0g@kcaprs.org](mailto:ku0g@kcaprs.org)>  
Date: Sun, 11 Jun 2000 21:55:08 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-90294-2000.06.11-21.58.33--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-90294-2000.06.11-21.58.33--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

The Elmers page is found at <http://www.kcaprs.org/elmers.htm>

--

73 de Jim, KU0G  
Chairman/Coordinator  
Kansas City APRS Working Group, W0APR  
First Alert Storm Team KMBC-TV9  
[Mailto:ku0g@kcaprs.org](mailto:ku0g@kcaprs.org)  
Webpage: <http://www.kcaprs.org>

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### 580. [aprssig] Re: first.aprs.net:23 not allowing logons

From: "Jeff Brenton" <[jeffb@espi.com](mailto:jeffb@espi.com)>  
Date: Mon, 12 Jun 2000 03:13:43 -0000  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: "aprssig" <[aprssig@tapr.org](mailto:aprssig@tapr.org)>  
Message-ID: <[LYR842-90299-2000.06.11-22.17.06--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-90299-2000.06.11-22.17.06--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

aprsd machines, which first.aprs.net is now (it isn't a Mac anymore) do not normally allow APRS logins to port 23, because it is a privileged port under Linux (and most other POSIX-compliant operating systems). Port 10152 is used on those machines for the unbuffered port.

Jeff Brenton, Amateur Radio call sign KA9VNV  
<http://espi.com>  
Questionable web page: <http://dididahdahdidit.com>

---

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---

### 581. [aprssig] PLEASE read carefully....

From: Jim Duncan <[ku0g@kcaprs.org](mailto:ku0g@kcaprs.org)>  
Date: Sun, 11 Jun 2000 22:44:15 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-90304-2000.06.11-22.47.40--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-90304-2000.06.11-22.47.40--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

OK, folks.... I appreciate all the "didja know this isn't working?" message but they're getting old...

It IS going to take several more days of rebuilding before I have the site, the images, the sound files, etc., etc., etc. restored. When I have everything back in place I'll ask for some volunteers to give it the "fine-tooth comb" treatment. In the meantime, please save the bandwidth.

I've already got six messages about missing images today alone... Please give me some time...

Thanks!

--

73 de Jim, KU0G  
Chairman/Coordinator  
Kansas City APRS Working Group, W0APR  
First Alert Storm Team KMBC-TV9  
[Mailto:ku0g@kcaprs.org](mailto:ku0g@kcaprs.org)  
Webpage: <http://www.kcaprs.org>



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## 582. [aprssig] RE: What's Best? in 10 words or less

From: "george Kammerzell" <n0zed@rmaprs.org>  
Date: Sun, 11 Jun 2000 22:14:32 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90306-2000.06.11-23.17.14--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

ya that's the real answer , if you don't want to read it just press that delete key !

-----Original Message-----

From: bounce-aprssig-17112@lists.tapr.org  
[mailto:bounce-aprssig-17112@lists.tapr.org]On Behalf Of Lumpy  
Sent: Sunday, June 11, 2000 6:40 AM  
To: TAPR APRS Special Interest Group  
Subject: [aprssig] What's Best? in 10 words or less

Re: The Current Thread..."New Sig"

I picture a question like -  
"What should my UI path be?"

That question has a different answer in  
Madison NJ than it does in Henderson NV  
than it does in Tulsa OK.

Asking a question like that on a "Newbie Sig"  
would require hundreds of posts to answer.  
Better answers would come from local groups,  
experts and gurus.

Just post your newbie questions to the group.  
Everyone (that includes you three, you know  
who you are) needs to hear the simple stuff  
now and again.

lumpy n0eq

The Very Unofficial Colorado APRS Page  
<http://www.digitalcartography.com>

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## 583. [aprssig] Re: first.aprs.net:23 not allowing logons

From: Steve Dimse <k4hg@tapr.org>  
Date: Mon, 12 Jun 2000 00:19:03 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90307-2000.06.11-23.22.15--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 6/11/00 11:13 PM Jeff Brenton (jeffb@espi.com) wrote:

>aprsd machines, which first.aprs.net is now (it isn't a Mac anymore) do not  
>normally allow APRS logins to port 23, because it is a privileged port under  
>Linux (and most other POSIX-compliant operating systems). Port 10152 is used  
>on those machines for the unbuffered port.

Please, do not confuse things. For compatibility reasons, www.aprs.net  
uses port 23 for its unbuffered connection. There are many web pages and  
users that were expecting port 23 to provide this function, so I left it.  
Yes, this is a privileged port, but all it takes is to edit the  
/etc/protocol file to move telnet to another port (and thereby provide  
additional security) and then edit the aprsd.conf file to make the  
unbuffered port 23.

So, even though [www.aprs.net](http://www.aprs.net) is a linux machine now, its port structure is the same as the Mac that formerly held the role.

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## 584. [aprssi] Re: first.aprs.net:23 not allowing logons

From: Steve Dimse <[k4hg@tapr.org](mailto:k4hg@tapr.org)>  
Date: Mon, 12 Jun 2000 00:22:54 -0400  
To: "TAPR APRS Special Interest Group" <[aprssi@lists.tapr.org](mailto:aprssi@lists.tapr.org)>  
Message-ID: <[LYR842-90308-2000.06.11-23.26.06--lyris.aprssi@tapr.org@lists.tapr.org](mailto:LYR842-90308-2000.06.11-23.26.06--lyris.aprssi@tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

On 6/11/00 7:20 PM Jim Gill ([gillj@uswest.net](mailto:gillj@uswest.net)) wrote:

>Not all aprsserve servers are allowing Logons to WinAPRS 247 clients, as far  
>as I can see. When you I logon to aprsserve using WinAPRS, you normally see  
>in the message list something like this:

>  
>APRSERVE USERLIST 4563 1 06/11 17:54 Verified user N0RMO logged on using  
>WinAPRS 2.4.7.

>  
>When you are successfully verified and logged in, then you can pass traffic  
>to aprsserve as an Igate (if configured as such). You can tell you are  
>passing traffic, usually because any traffic in Blue in the history list is  
>repeated immediately below or soon after in Green, indicating your Igate  
>passed in on to the feed. In busier areas with more than one Igate, it's a  
>little harder to tell but with experience you can.

>  
>The following is a list of servers and the information about whether I am  
>able to log in or not.

>  
>first.aprs.net:23  
>aprsdMIA javaMSG 1 06/11 18:16 Miami\_FL Linux APRS Server: 205.184.127.183  
>connected 100 users online.

>  
>second.aprs.net:23  
>APRSERVE USERLIST 4594 1 06/11 18:17 Verified user N0RMO logged on using  
>WinAPRS 2.4.7.

>  
>third.aprs.net:23  
>APRSERVE USERLIST 4595 1 06/11 18:17 Verified user N0RMO logged on using  
>WinAPRS 2.4.7.

>  
>n9uur.aprs.net:23  
>APRSERVE javaTITLE 1 06/11 18:18 APRServe 0.9 build 825 de K4HG  
>APRSERVE USERLIST 13501 1 06/11 18:18 Verified user N0RMO logged on using  
>WinAPRS 2.4.7.

>  
>second.aprs.net:23 was not giving "verified" connections earlier but seems  
>to be working now. So first.aprs.net:23 (and therefore [www.aprs.net](http://www.aprs.net):23)  
>won't allow you to pass traffic IN to the stream as an Igate.

>  
You don't always get the message back, but there should be no problem  
with getting a verified connection. There are quite a few on [www.aprs.net](http://www.aprs.net)  
now using WinAPRS 2.4.7. If you really want to know if your connection is  
validated, look at the status port:

<http://www.aprs.net:14501/>

Steve K4HG

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## 585. [aprssi] SSID Mode Digipeating

From: Greg Noneman <[greg@clubnet.net](mailto:greg@clubnet.net)>  
Date: Sun, 11 Jun 2000 22:29:45 -0700  
To: "TAPR APRS Special Interest Group" <[aprssi@lists.tapr.org](mailto:aprssi@lists.tapr.org)>  
Message-ID: <[LYR842-90326-2000.06.12-00.33.48--lyris.aprssi@tapr.org@lists.tapr.org](mailto:LYR842-90326-2000.06.12-00.33.48--lyris.aprssi@tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

I have been experimenting with Marco Savegnago's UIDIGI firmware for the  
TNC-2. One of the nice features of UIDIGI is the ability to select the  
SSID mode of digipeating. With more and more D7s and D700s showing up  
every day, this feature will become increasingly useful.

It appears that Marco has patterned the SSID routing mode after operation observed from the TM-D700. It wasn't until I tried playing with SSIDs greater than 11, that I noticed operation different from what I expected. According to the APRS Protocol Reference, SSIDs of 12 through 15 should be routed as follows:

| SSID | Path              |
|------|-------------------|
| 12   | North path + WIDE |
| 13   | South path + WIDE |
| 14   | East path + WIDE  |
| 15   | West path + WIDE  |

I understand this to mean that a single additional hop of WIDE will be added to the directional path selected.

Inspection of the TM-D700 Specialized Communications Manual describes different functionality. Page 24 of this manual states that many hops can result from the use of SSIDs 12 through 15. If I understand the manual correctly, a network of multiple SSID routing capable digipeaters (nodes) would continue to digipeat a packet directionally until a directional path was no longer defined. In other words, if a packet was sent with a destination SSID of 12, it would be digipeated by the first digipeater (DIGI1) to it's north destination digi(DIGI2). DIGI2 would then route it to it's north destination digi(DIGI3), and so on, until a digi is reached which has no north destination digi specified.

While the Kenwood approach has the potential for longer path routing, it would seem that the initiator has no control on how far the packet will travel unless he is intimately familiar with the wide area digipeater configuration.

Can anyone shed some light on this issue? Is the protocol changing or is the Kenwood firmware non-compliant? I'm sure Marco wants his firmware to reflect the accepted method of operation.

Greg  
WB6ZSU

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## 586. [aprssig] Re: TWeRP (Tiny Web Resource Page)

From: "Jim Gill" <[jimgill@ix.netcom.com](mailto:jimgill@ix.netcom.com)>  
Date: Mon, 12 Jun 2000 01:26:58 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-90331-2000.06.12-01.33.41--lyris.aprssig@lists.tapr.org](mailto:LYR842-90331-2000.06.12-01.33.41--lyris.aprssig@lists.tapr.org)>  
Rendered body type: text/plain

Has someone started a TWeRP Web Page to coordinate the resource abbreviations? Also, how about something like LIST or RES for some way to get a short list of query terms that a local server has on file? Otherwise if an aprsdata server goes on line, they'll have to (ideally) abide by an "assumed standard" of what's available by what's published on email or web page lists.

Thanks,  
Jim NØRMO

NØRMO-1 DA3 now running in Omaha, NE on 144.39

----- Original Message -----

From: "Bob Bruninga" <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: "aprs sig (E-mail)" <[aprssig@tapr.org](mailto:aprssig@tapr.org)>  
Sent: Sunday, June 11, 2000 10:56 AM  
Subject: [aprssig] Re: TWeRP (Tiny Web Resource Page)

> > Here's some other possible abbreviations for TWeRP (Tiny Web Resource Page)  
> > HOSP = Hospital location and telephone number  
> > PD = Police Station (Local/Municipal) location and telephone number  
> > SP = State Police Station/Barracks locations and a telephone number  
> > EOC = EOC Locations and local government OEM freq.

> > VHF = List of local 2M voice repeaters, location, freq., etc.  
> > UHF = List of local 440 voice repeaters, location, freq., etc.  
> > 6M = List of local 6M voice repeaters, location, freq., etc.  
> > ATV = List of local ATV repeaters, location, freq., etc.  
> > BBS = List of local 2M packet BBS, location, freq., etc.

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## 587. [aprssig] Re: Igates stripping unprintables... again

From: Ian Wade <Ian.Wade@care4free.net>  
Date: Mon, 12 Jun 2000 07:27:41 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90335-2000.06.12-01.47.26--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In article <LYR14778-90246-2000.06.11-16.55.12--Ian.Wade#care4free.net@lists.tapr.org>, Jim Gill <gillj@uswest.net> writes  
>KH2Z, note to you at the end... now on to the data...  
>  
>Connected to n9uur.aprs.net:23 with WinAPRS 247 on RF and as an Igate. In  
>the example below, in the winaprs history list, the first packet is Blue  
>(from TNC) and the next two packets are Green (I gated to TCPIP).  
>  
>N0RMO-15>TQRQ3U: '{W=l K\}  
>N0RMO-15>APK101: @112003z4121.35N\09559.31WK000/000/Mic-E/M0/Off duty>  
>N0RMO-15>TQRQ3U: '{W=l K\}  
>  
>Note on the third packet that either WinAPRS or the n9uur.aprs.net  
>server is echoing back the raw D700 packet, but with the unprintable  
>character stripped.  
>Currently, the above example shows my icon jumping back and forth between  
>the Kenwood "K" and the DF triangle.

The icon jumping back and forth is a WinAPRS bug. WinAPRS should have dropped the third packet because it contains the symbol code J\, which is illegal (it only partially decoded the symbol, and assumed incorrectly that it was from the Primary Symbol Table).

>  
>N0RMO-15>TQRQ3U: '{W=l v/}  
>N0RMO-15>APK101: @112057z4121.35N/09559.31Wv000/000/Mic-E/M0/Off duty>  
>N0RMO-15>TQRQ3U: '{W=l v/}  
>  
>With this example above, I jump back and forth between the VAN (first/second  
>packet) and a DOT (third packet).

The jumping icons arise from the same WinAPRS bug.

>  
>My D700 was set with the Packet Path \*empty\* so I could be sure my Igate was  
>the only one sending data to aprsserve.  
>  
>So the jumping positions and jumping icons are still the result of various  
>broken aprsservers stripping unprintable characters.

No. The jumping icons are still the result of broken WinAPRS software. You should not have seen the DF triangle or the dot symbol, because WinAPRS decoded the symbols incorrectly. In each of the above examples, you should only have seen the first two packets of the three on the screen.

The quite separate problem is the dropping of the non-printing characters somewhere in the network. That is almost certainly due to a TNC somewhere operating in terminal mode together with broken APRS software. This will need some detective work to follow the trail and discover where it breaks.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

\*\*\*\*\* Third draft now available \*\*\*\*\*

--

```

+-----+
| APRS on 144.800 [I0915X] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+

```

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## 588. [aprssig] More network data trashing: 60 minutes

From: Ian Wade <Ian.Wade@care4free.net>  
 Date: Mon, 12 Jun 2000 09:47:50 +0100  
 To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
 Message-ID: <LYR842-90341-2000.06.12-03.51.35--lyris.aprssig#tapr.org@lists.tapr.org>  
 Rendered body type: text/plain

Here's an interesting one, from www.aprs.net last night (Sunday 11 June):

First, here is KB9PDM, (presumably) at home:

```

~~~~~
KB9PDM>APW233,WB9TLH-10*,WIDE5-1/1:=3958.20N/08600.83W-PHG6150/WinAPRS 2.3.3
KB9PDM>APW233,N9UWE*,WIDE5-1:=3958.20N/08600.83W-PHG6150/WinAPRS 2.3.3
KB9PDM>APW233,WB9QPG-15*,WIDE5-2:=3958.20N/08600.83W-PHG6150/WinAPRS 2.3.3
~~~~~

```

No problem with any of these. Note the first digi in each one:  
 WB9TLH-10, N9UWE, WB9QPG-15.

Then there is a packet from KB9PDM's TH-D7:

```

~~~~~
KB9PDM-7>APRS,WB9TLH-10*,WIDE5-1/1:@111819z3958.21N/08600.81Wv152/000/T>dsy/M2/In Service
~~~~~

```

A slight change in the lat/long compared with the packets from the home  
 station. Again no problem. Also, this packet was launched via WB9TLH-10.

But look at these:

```

-----
Record #2269
KB9PDM-7>APRS,KC8HFX-10*,WIDE5-3:@141957h3958.22N/08660.81Wv343/000MIC/M2/In Service..>
APRS Data Type= Posit w/ time. With APRS
Time= 14 hours 19 mins 57 secs UTC
Lat= 39 deg 58.22 min N Long= **BAD LONG
Icon= Van Overlay= (none)
Course= 343 deg Speed= 000 knots (0.0 mph 0.0 kph 0.0 m/s)

```

```

-----
Record #2939
KB9PDM-7>APRS,W8MW0*,WIDE5-2:@141958h3958.22N/08660.81Wv343/000MIC/M2/In Service..>
APRS Data Type= Posit w/ time. With APRS
Time= 14 hours 19 mins 58 secs UTC
Lat= 39 deg 58.22 min N Long= **BAD LONG
Icon= Van Overlay= (none)
Course= 343 deg Speed= 000 knots (0.0 mph 0.0 kph 0.0 m/s)

```

```

-----
Record #2951
KB9PDM-7>APRS,WA8VIW-10*,WIDE5-2:@142000h3958.22N/08660.81Wv343/000MIC/M2/In Service..>
APRS Data Type= Posit w/ time. With APRS
Time= 14 hours 20 mins 00 secs UTC
Lat= 39 deg 58.22 min N Long= **BAD LONG
Icon= Van Overlay= (none)
Course= 343 deg Speed= 000 knots (0.0 mph 0.0 kph 0.0 m/s)

```

At first I couldn't see why the longitude was bad (5 digits before the decimal point, two after, followed by "W" -- the format's OK). Then it clicked: HOW MANY minutes???

In these last three packets, someone has blundered in the Mic-E conversion (but not ">dsy"). For a minutes value of 60, the original Mic-E packet would probably have contained the letter "X" in this position. But "X" actually represents 0 minutes, which is the correct value for KP9PDM's position.

In other words, did someone forget to subtract 60 for values >= 60 .....

[Donning Sherlock Holmes deerstalker]: These last three packets were launched via KC8HFX-10, W8MWO and WA8VIW-10. Find out which way they were likely to have gone, and hence which IGate(s) they likely hit. This may give a clue as to what happened. To horse!

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

\*\*\*\*\* Third draft now available \*\*\*\*\*

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| | |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

---

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---

## 589. [aprssig] Re: More network data trashing: 60 minutes

From: Ian Wade <Ian.Wade@care4free.net>

Date: Mon, 12 Jun 2000 11:40:46 +0100

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Message-ID: <LYR842-90354-2000.06.12-05.44.31--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

In article <LYR14778-90341-2000.06.12-03.51.35--Ian.Wade#care4free.net@lists.tapr.org>, Ian Wade <Ian.Wade@care4free.net> writes

>Here's an interesting one, from www.aprs.net last night (Sunday 11 June):

[snip]

An afterthought: the timestamp on the good TH-D7 packet is correct (to the nearest hour at least):

```
~~~~~
>KB9PDM-7>APRS,WB9TLH-10*,WIDE5-1/1:@111819z3958.21N/08600.81Wv152/000/T>dsy/M2/In Service
~~~~~
```

The timestamps on the bad packets are all 4 hours early.

```
~~~~~
>KB9PDM-7>APRS,KC8HFX-10*,WIDE5-3:@141957h3958.22N/08660.81Wv343/000MIC/M2/In Service..>
>KB9PDM-7>APRS,W8MWO*,WIDE5-2:@141958h3958.22N/08660.81Wv343/000MIC/M2/In Service..>
>KB9PDM-7>APRS,WA8VIW-10*,WIDE5-2:@142000h3958.22N/08660.81Wv343/000MIC/M2/In Service..>
~~~~~
```

Find out whose clock is running 4 hours slow.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

\*\*\*\*\* Third draft now available \*\*\*\*\*

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| | |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
+-----+
```

| APRS DECODER:           http://www.netro.co.uk/aprs.htm           |  
+-----+

---  
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---

## 590. [aprssi] Re: Reverse Gating NWS data

From: "Dale Huguley" <kg5qd@worldnet.att.net>  
Date: Mon, 12 Jun 2000 10:42:44 -0000  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-90355-2000.06.12-05.48.11--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I wonder why the I-gate software was changed? At any rate all data coming out of my parser is addressed to "APRS" until I can find out.  
Thanks to Jim Gill and Jim Duncan for finding the problem.

73 de KG5QD Dale

>Yep, that did it, anything above 2.4.3 won't reverse gate SKYW data. 243  
>does work! Thanks, Jim!  
>  
>> It only seems to work on 2.4.3, Jim.... I can't get 2.4.7 to work  
>> either..  
>>  
>> --

---  
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## 591. [aprssi] Re: TWeRP (Tiny Web Resource Page)

From: David Nesting <david@fastolfe.net>  
Date: Mon, 12 Jun 2000 08:03:06 -0500  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssi@lists.tapr.org>  
Message-ID: <LYR842-90404-2000.06.12-08.06.18--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Mon, Jun 12, 2000 at 01:26:58AM -0500, Jim Gill wrote:  
: Has someone started a TWeRP Web Page to coordinate the resource

Maybe we need a TWP to list all the possible TWP requests.. :)

--  
== David Nesting WL7RO Fastolfe david@fastolfe.net http://fastolfe.net/ ==  
--  
Hi! I'm a .signature virus! Copy me into your ~/.signature to help me spread!

---  
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---

## 592. [aprssi] RE: SSID Mode Digipeating

From: "Sadowski, Allan" <allan.sadowski@ncshp.org>  
Date: Mon, 12 Jun 2000 09:16:58 -0400  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Cc: "'aprssi@tapr.org'" <aprssi@tapr.org>  
Message-ID: <LYR842-90410-2000.06.12-08.16.21--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Greg

Correct me if I'm wrong... but doesn't this require "a priori" knowledge on the part of every digi - as to what the next digi is in any direction...

I understand Marco's software needs that info when you prep the parameters for burning the EPROM... but how many other digi's have those parameters? I don't recall any such thing in KPC-3's....

Mind you... Marco did a SUPER job on what he did... and he is adhering to the intent of the spec far better than any vendor...

Pardon my response, it doesn't address your question.. just comments and fuel... anyway, I certainly look forward to more input from you as you experiment with Marco's software.... I'm about to start on the air testing of his code...

ALOHA  
AH6LS

> -----Original Message-----  
> From: Greg Noneman [SMTP:greg@clubnet.net]  
> Sent: Monday, June 12, 2000 1:30 AM  
> To: TAPR APRS Special Interest Group  
> Subject: [aprssig] SSID Mode Digipeating  
>  
> I have been experimenting with Marco Savegnago's UIDIGI firmware for the  
> TNC-2. One of the nice features of UIDIGI is the ability to select the  
> SSID mode of digipeating. With more and more D7s and D700s showing up  
> every day, this feature will become increasingly useful.  
>  
> It appears that Marco has patterned the SSID routing mode after operation  
> observed from the TM-D700. It wasn't until I tried playing with SSIDs  
> greater than 11, that I noticed operation different from what I expected.  
> According to the APRS Protocol Reference, SSIDs of 12 through 15 should  
> be routed as follows:  
>  
> SSID Path  
>  
> 12 North path + WIDE  
> 13 South path + WIDE  
> 14 East path + WIDE  
> 15 West path + WIDE  
>  
> I understand this to mean that a single additional hop of WIDE will be  
> added to the directional path selected.  
>  
> Inspection of the TM-D700 Specialized Communications Manual describes  
> different functionality. Page 24 of this manual states that many hops  
> can result from the use of SSIDs 12 through 15. If I understand the  
> manual correctly, a network of multiple SSID routing capable digipeaters  
> (nodes) would continue to digipeat a packet directionally until a  
> directional path was no longer defined. In other words, if a packet was  
> sent with a destination SSID of 12, it would be digipeated by the first  
> digipeater (DIGI1) to it's north destination digi(DIGI2). DIGI2 would  
> then route it to it's north destination digi(DIGI3), and so on, until a  
> digi is reached which has no north destination digi specified.  
>  
> While the Kenwood approach has the potential for longer path routing, it  
> would seem that the initiator has no control on how far the packet will  
> travel unless he is intimately familiar with the wide area digipeater  
> configuration.  
>  
> Can anyone shed some light on this issue? Is the protocol changing or is  
> the Kenwood firmware non-compliant? I'm sure Marco wants his firmware to  
> reflect the accepted method of operation.  
>  
>

---

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### 593. [aprssig] Best Price/Availability on III+ ??

From: Larry McDavid <lmcdavid@lmceng.com>  
Date: Mon, 12 Jun 2000 06:22:25 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90411-2000.06.12-08.25.33--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Who has the best price and availability on Garmin III+ outside of California?

--

Larry McDavid W6FUB  
Anaheim, CA (20 miles southeast of Los Angeles, near Disneyland)

---

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## 594. [aprssig] Eunice derailment

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Mon, 12 Jun 2000 07:58:40 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90422-2000.06.12-09.11.38--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Remember the derailment in Eunice, Louisiana? They had TV on CAP airplanes, and I thought APRS was there, too, but I might have been mistaken. Sad situation, but a good opportunity for hams to shine.

From AVWEB:

>THE MANY FACES OF CAP: PLANES, TRAINS, FIRE AND VIDEO...  
>On May 27, at least 20 Union Pacific freight cars (some carrying  
>dangerous and volatile chemicals) derailed near Eunice, La., and as  
>cars burned, digital video provided by the Civil Air Patrol (CAP)  
>allowed emergency workers to get up close and personal with the  
>wreckage. Their special perspective, coupled with the ability to  
>transmit high-resolution digital still photos to a specially-designed  
>Web site, allowed chemical companies to positively identify their cars  
>amongst the conflagration within minutes of when the shots were taken.  
>AVweb's Newswire <<http://www.avweb.com/newswire/news0024a.html>>  
>contains a link to the CAP Web site where the fire photos are posted.

7 3  
Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)  
PGP Key ID 0x00BF1A39

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

---

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---

## 595. [aprssig] Re: SSID Mode Digipeating

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Mon, 12 Jun 2000 10:15:46 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90423-2000.06.12-09.18.59--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Sun, 11 Jun 2000, Greg Noneman wrote:

> I have been experimenting with ... UIDIGI firmware for the TNC-2...  
> [in] SSID mode...  
>  
> It appears that Marco has patterned the SSID routing mode after operation  
> observed from the TM-D700...  
> ...  
> Inspection of the TM-D700 Specialized Communications Manual describes  
> different functionality.  
>  
> Can anyone shed some light on this issue? Is the protocol changing or is  
> the Kenwood firmware non-compliant?

Neither? All any Mic-E or D7 or D700 does is put a # in the SSID field of the TO address. From that point on, what happens to the packet is totally up to the digipeater. Since until Marco wrote UIDIGI, there were no digis capable of this mode. My original definition of how I thought we should route these packets is included in the Mic-E spec.

But fortunately, we can define how we ROUTE according to these 16 combinations in any way we want. All "we" need to do is decide what is best. (but once we decide, we all need to do it the same way in the same network, I think... so that users know what to expect...

Hope that helps.

de WB4APR, Bob

---

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## 596. [aprssig] uiview crashing Winaprs??

From: "Alex Pinheiro Machado Rodrigues" <alexmac@tba.com.br>  
Date: Mon, 12 Jun 2000 11:16:19 -0300  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90424-2000.06.12-09.19.30--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi sig

Yesterdat I had an interesting crash in my winaprs 2.46.  
Here in my city (Brasilia) there only 3 aprs stations:

PT2VHF - The digi and my home station  
PT2VHF-10 - The Igate running with Winaprs Igate  
PT2VHF-7 - My car, a tracker.

The crash problem with Igate (getting some bad packets from internet feed)  
is common, but not when connected only with vhf.

Last week I changed the igate client from winaprs to uiview32 (registered  
version). After this modification my home client (winaprs 2.46 with kpc3+  
vhf) still getting same crash window that I had when connected with  
internet. I saw that each new station sent by igate I had another error  
window.

My question. Maybe uiview are sending bad packets over internet?

Alex Rodrigues  
PT2VHF  
BRAZIL

---

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## 597. [aprssig] Re: TWeRP (Tiny Web Resource Page)

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Mon, 12 Jun 2000 10:20:28 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90428-2000.06.12-09.23.45--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Mon, 12 Jun 2000, Jim Gill wrote:

> Has someone started a TWeRP Web Page to coordinate the resource  
> abbreviations? Also, how about something like LIST or RES for some way to  
> get a short list of query terms that a local server has on file?

The current "HELP" Query will do that. For now, it is a fixed list, but  
it will soon respond to what ever files are in the \POS directory.

de WB4APR, Bob

---

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## 598. [aprssig] RE: SSID Mode Digipeating

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Mon, 12 Jun 2000 10:29:58 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>,  
"aprssig@tapr.org" <aprssig@tapr.org>  
Message-ID: <LYR842-90429-2000.06.12-09.33.26--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Mon, 12 Jun 2000, Sadowski, Allan wrote:

> Correct me if I'm wrong... but doesn't this require "a priori" knowledge on  
> the part of every digi - as to what the next digi is in any direction...

Yes. In other words... "planning".

Every digi that implements SSID routing needs to know who is its next hop in the 4 cardinal directions (or 4 generally agreed directions). But ONLY for using the SSID's 8 and above. For 0-7, they behave just like WIDEN-N digis...

de WB4APR, Bob

---

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## 599. [aprssig] RE: SSID Mode Digipeating

From: Greg Noneman <greg@clubnet.net>  
Date: Mon, 12 Jun 2000 07:36:20 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90431-2000.06.12-09.40.19--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Allan Sadowski wrote:

>Greg

>

>Correct me if I'm wrong... but doesn't this require "a priori" knowledge on  
>the part of every digi - as to what the next digi is in any direction...

>

Yes, this is correct.

>I understand Marco's software needs that info when you prep the parameters  
>for burning the EPROM... but how many other digi's have those parameters?  
>I don't recall any such thing in KPC-3's....

>

As far as I know, UIDIGI is the only firmware that provides SSID routing in a stand-alone TNC configuration. Other software exists (such as APRSDIGI) which includes this functionality for PC assisted digipeater configurations.

>Mind you... Marco did a SUPER job on what he did... and he is adhering to  
>the intent of the spec far better than any vendor...

>

Agreed! Marco is doing a great job.

>Pardon my response, it doesn't address your question.. just comments and  
>fuel... anyway, I certainly look forward to more input from you as you  
>experiment with Marco's software.... I'm about to start on the air testing  
of his  
>code...

>

>ALOHA  
>AH6LS

>

I've been performing "local" testing with UIDIGI for about month and put it into hilltop operation over the weekend. If all goes well, I will be converting all the digis I'm associated with to UIDIGI.

73,  
Greg  
WB6ZSU

---

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## 600. [aprssig] Re: SSID Mode Digipeating

From: Greg Noneman <greg@clubnet.net>  
Date: Mon, 12 Jun 2000 07:50:34 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90438-2000.06.12-09.55.12--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bob Bruninga wrote:

>

>Neither? All any Mic-E or D7 or D700 does is put a # in the SSID field of  
>the TO address. From that point on, what happens to the packet is  
>totally up to the digipeater. Since until Marco wrote UIDIGI, there were  
>no digis capable of this mode. My original definition of how I  
>thought we should route these packets is included in the Mic-E spec.  
>  
>But fortunately, we can define how we ROUTE according to these 16  
>combinations in any way we want. All "we" need to do is decide what is  
>best. (but once we decide, we all need to do it the same way in the same  
>network, I think... so that users know what to expect...  
>  
>Hope that helps.  
>  
>de WB4APR, Bob  
>  
I don't have a copy of the Mic-E spec. I do have the manual for the  
Mic-E, as well as for the D7, D700 and documentation for APRSDIGI. It  
sounds like this issue never came up since there was nothing around to  
perform the function. The reason I brought it up was to point out what I  
see as an inconsistency between documentation. Sounds like it's time to  
figure this out. Is not the APRS Protocol Reference the place to  
properly document the operation of this mode?

Greg  
WB6ZSU

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## 601. [aprssig] SSID Routing?

From: Earl Needham <[kd5xb@amsat.org](mailto:kd5xb@amsat.org)>  
Date: Mon, 12 Jun 2000 08:59:10 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-90464-2000.06.12-10.01.33--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-90464-2000.06.12-10.01.33--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

At 07:36 AM 6/12/00 -0700, Greg Noneman wrote:  
><snip>  
>As far as I know, UIDIGI is the only firmware that provides SSID routing  
>in a stand-alone TNC configuration.

I apologize in advance -- I must have been asleep.

What is SSID routing? I can't remember ever hearing of it.

7 3  
Earl

---  
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## 602. [aprssig] TWP Thoughts

From: "Stephen M. King" <[frastephen@home.com](mailto:frastephen@home.com)>  
Date: Mon, 12 Jun 2000 11:55:26 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-90474-2000.06.12-10.58.46--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-90474-2000.06.12-10.58.46--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Hi All!

Some thoughts on the ongoing discussions and some questions...

1. COMMENT: I like the idea of a TWP "Repeater Directory". Due to the nature of the users of this application I would limit the directory to active, open repeaters. In this area there are lots of 2m repeaters but very little, if any, activity on any of them. Plus, as we know, an repeater defined as "open" in the ARRL repeater directory is not necessarily an open repeater in practice. I would think listing the main open repeater in each coverage area would be sufficient. In our own areas we all know what repeater we would go to if we needed help, but that wisdom comes from time and experience in the area -- not from any repeater directory.

2. QUESTION: This is my first experience with using POS files. How are these things generated? Is there some automated way of reading files or maps and creating these things? How do we do it? Take a GPS and go on

"surveying expeditions"?

3. COMMENT/QUESTION: To make some of these POS files useable on a local server running on less-than-state-of-the-art computers they need to be SEVERELY edited. This is rather time-consuming and tedious and prone to error when done manually. A program to read these and generate an edited file for a particular service area would be incredibly useful. I was a programmer in a previous life and I know the algorithm is very simple and I know how I would do it in COBOL ;- ) but I am relatively clueless on contemporary programming languages. I would think this would be very useful down the road...

which leads me to my next point...

4. COMMENT: There seems to be a fair amount of interest in this project right now and hopefully it will catch on as a useful feature for mobiles w/o laptops. At some point we will need to work on coordination. It would seem that keeping the service areas small would be helpful (see #3 above) but if more than 2 servers respond to a request it could be either confusing or provide invalid data... Something to think about.

5. COMMENT: Here in Philly I am starting to see some requests to the server here. But so far just a handful per day -- for those who might be concerned about network congestion issues ... The target audience, at least for now, is a relatively small crowd...

73 & Peace,  
Stephen  
KD3OG

---

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---

### 603. [aprssig] Re: Best Price/Availability on III+ ??

From: Ray Vaughan <ray@rayvaughan.com>  
Date: Mon, 12 Jun 2000 12:07:40 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90479-2000.06.12-11.11.22--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 06:22 AM 6/12/00 -0700, you wrote:  
>Who has the best price and availability on Garmin III+ outside of California?

For anything like this, I like to check <http://www.pricescan.com>. Look under gadgets, then GPS. They check the prices offered by Internet dealers. For your item, it looks like \$334.99 is the lowest price right now.

BUT, grab the top 4 or 5 and call or visit all of them to get their 'delivered' price. Some not so nice vendors add a handling fee to get their prices back up. But you'll find that the real deals are on the net. Much better than the stores due to the higher volume and reduced overhead.

---

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---

### 604. [aprssig] Re: SSID Routing?

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Mon, 12 Jun 2000 12:19:16 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90481-2000.06.12-11.22.36--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Mon, 12 Jun 2000, Earl Needham wrote:

> >As far as I know, UIDIGI is the only firmware that provides SSID routing  
> >in a stand-alone TNC configuration.  
>  
> What is SSID routing? I can't remember ever hearing of it.

I proposed it along with WIDEn-N in 1994/5 time frame in my README\DIGIS.TXT file. It took 4 years until 1998 before someone, (Kantronics), added it to digipeater code, but they only did the WIDEn-N portion of it. SSID routing is identical to WIDEn-N. Just think of it as "N" routing. But it does not waste the 7 bytes of a digipeater address

to do it.

But, since digipeating in APRS is limited to only a max of 7 hops, we decided to use the additional SSID bits above 7 for "DIRECTIONAL" digipeating also.

The digits 8-11 indicate N,S,E and 12-15 indicates the same four directions but with an extra hop on the end.

The objective of SSID routing was to keep trying to make packets shorter and shorter. A four-hop Mic-E packet with SSID routing would be:

```
W4XX>SY0NMP-4*:'123CST/$
```

Compared to:

```
W4XX>SY0NMP,WA3FYN-15,WB4APR-11,KA3ATI-12,WA3TOM-11*:'123CST/$
```

So you can see that we would gain a DOUBLING of channel capacity... in this case.

But it will only work in an area where all digis support it, so no one has used it till now. BUT, it is built-in as a TRANSMIT option in all Mic-E's and Kenwoods, and ANY one can generate it... So it can be used if/when all DIGI's support it. OR for your special event where you need MAXIMUM channel efficiency and only have a few digis that you can configure for SSID...

de WB4APR, Bob

---

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---

## 605. [aprssig] Weather stations with APRS

From: "Paul-Andre Lambert" <ve2pal@rac.ca>  
Date: Mon, 12 Jun 2000 11:33:24  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90484-2000.06.12-11.36.35--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Thank you for reading,

I would like to setup a weather station with my KPC3Plus on APRS without having a PC connected at all times. Someone has mentionned that the Oregon Scientific WM918 (same unit as the Radio Shack WX200) could do this.

Are the wireless version WBR918 or any other weather station also able to do the same ?

Thank you and 73's

Paul  
VE2PAL

---

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---

## 606. [aprssig] Re: TWP Thoughts

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Mon, 12 Jun 2000 12:40:05 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90490-2000.06.12-11.43.19--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Mon, 12 Jun 2000, Stephen M. King wrote:

> 1. COMMENT: I like the idea of a TWP "Repeater Directory"... In our  
> own areas we all know what repeater we would go to if we needed help,  
> but that wisdom comes from time and experience in the area

EXACTLY the correct selection criteria. THus it must be built manually...

> 2. QUESTION: How are these .POS files generated?... Automated? Take a  
> GPS and go on "surveying expeditions"?

Any way you can. If databases exist, we can automatically re-format. But a lot is done manually so far.

> SEVERELY edited. This is rather time-consuming and tedious and prone to

> error when done manually. A program to read these and generate an edited  
> file for a particular service area would be incredibly useful.

I would be happy to write one of these.. All we need is the data, in  
whatever format we can find.

Anydata base that can print out a file of items with LAT/LONGS should be  
converted to \*.POS files...

Bob

---

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---

## 607. [aprssig] Re: Weather stations with APRS

From: "Jim Gill" <gillj@uswest.net>  
Date: Mon, 12 Jun 2000 11:47:11 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: <aprssig@tapr.org>  
Message-ID: <LYR842-90492-2000.06.12-11.50.28--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

To the best of my knowledge (and prior testing), it will not work. I have a  
Radio Shack WX200... and the data coming out the serial port is binary, not  
plain ASCII text, which the KPC3Plus would require. I find no way to switch  
the WX200 to ASCII output.

A standalone TNC/Weather/Radio setup would require something else like a  
Peet, Davis, etc.

----- Original Message -----

From: "Paul-Andre Lambert" <ve2pal@rac.ca>  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Sent: Monday, June 12, 2000 11:33 AM  
Subject: [aprssig] Weather stations with APRS

> Thank you for reading,  
> I would like to setup a weather station with my KPC3Plus on APRS without  
> having a PC connected at all times. Someone has mentionned that the Oregon  
> Scientific WM918 (same unit as the Radio Shack WX200) could do this.  
> Are the wireless version WBR918 or any other weather station also able to  
> do the same ?  
> Thank you and 73's  
> Paul  
> VE2PAL

---

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---

## 608. [aprssig] Re: Weather stations with APRS

From: "Aaron" <ae4ko@amsat.org>  
Date: Mon, 12 Jun 2000 13:13:10 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90494-2000.06.12-12.15.45--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> Thank you for reading,  
> I would like to setup a weather station with my KPC3Plus on APRS  
> without having a PC connected at all times. Someone has mentionned  
> that the Oregon Scientific WM918 (same unit as the Radio Shack WX200)  
> could do this. Are the wireless version WBR918 or any other weather  
> station also able to do the same ? Thank you and 73's Paul VE2PAL  
>

TAPR is currently developing a kit that will do exactly what you are  
describing (in conjunction with the Dallas 1-wire Wx Station)

Check out

<http://www.tapr.org/tapr/html/Ft238.html>  
and  
<http://ourworld.compuserve.com/homepages/wmbeals/>

for details.

Aaron  
TAPR T238 WX Station Beta Tester

---

(Random Quote)

The only thing that hurts more than paying income tax  
is not having to pay income tax.

---

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---

## 609. [aprssig] TWP question/idea?

From: "bob" <w2g3zfj@unix.asb.com>  
Date: Mon, 12 Jun 2000 13:33:35 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90500-2000.06.12-12.32.36--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi Folks

I've been following the thread on TWP and I'd like to try it here (Long Island). However, I run WINAPRS 24/7 with my hf gate/wx station, KamPlus etc. SO, what I was thinking of doing, was to use a CITADEL with aprsdata running on it and with a different callsign, say g3zfj-5. Connect it to a TNC2 and then wire its mic/spkr/ptt in parallel with the KAMPlus VHF outputs. Then, I should be able to run both systems at the same time, apart from the occasional garbles when both try to access the vhf tx simultaneously.

If I keep the path for the aprsdata to local only it shouldn't add to much load to the network.

Anyone see any problems with this approach before I wire it up???

73 de bob  
w2/g3zfj

---

## 610. [aprssig] TWP idea

From: Samuel Barker <srbarber@chgw.com>  
Date: Mon, 12 Jun 2000 11:51:55 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90503-2000.06.12-12.57.10--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I'm very excited about the whole TWP idea, and am working to implement a server for the Boise area.

The one idea I have for objects to put into the system is rest areas along interstates (REST in the system?). It's always nice when traveling to be able to gauge how much of an emergency that "call of nature" is

Samuel, W7YYY

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## 611. [aprssig] D7A(G) Turnaround time



From: "bob" <w2g3zfj@unix.asb.com>  
Date: Mon, 12 Jun 2000 14:06:09 -0400  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-90506-2000.06.12-13.05.14--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Just as an FYI, I received my unit back today from the Eastern service centre. Took 12 days door to door. Not to bad!

Now to find out about all the new functions.!

Kenwoods enclosed note also said that beta software was available on the ftp site. Da\*\*\*d if I can see it!!

73 de bob

w2/g3zfj

---

## 612. [aprssid] USB Serial with WAPRS

From: David VanHorn <dvanhorn@cedar.net>  
Date: Mon, 12 Jun 2000 13:09:51 -0700  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-90509-2000.06.12-13.14.11--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----  
Hash: SHA1

I have a pair of Entrega USB serial adaptors, and I am trying to get my Igate back up on my main computer after a nasty crash of the aux machine.

Unfortunately, both "real" serial ports are tied up.

I have the latest drivers, and I can talk to the TNC through hyperterminal, but with WAPRS, it appears that the incoming data does not happen unless there is an outgoing char.

If I open a wapr terminal window, and press any key, then I start getting data and responses from the TNC, one or two chars at a time.

I've tried setting handshake to Xon, hardware, or none, no effect.  
I've tried turning the buffers on, off, and everything inbetween, no effect.

Anyone got a clue for me?

- - -

Are you an ISP? Tired of spam?  
www.spamwhack.com A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----  
Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBOUVDj4F1GDz116VWEQLKJQCg4+cKF0wvMjU+50wvnyN0GF7bcPYAn1Z8  
8qcCke8131K21Bu0tp/joYnX  
=DmHN

-----END PGP SIGNATURE-----

---

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---

## 613. [aprssid] Re: uiview crashing Winapr??

From: Roger Barker <roger@peaksys.co.uk>  
Date: Mon, 12 Jun 2000 19:18:52 +0100  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-90511-2000.06.12-13.22.56--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In article <LYR1643-90424-2000.06.12-09.19.30--ROGER#PEAKSYS.CO.UK@lists.tapr.org>, Alex Pinheiro Machado Rodrigues <alexmac@tba.com.br> writes

>Hi sig

>

>Yesterday I had an interesting crash in my winapr 2.46.

>Here in my city (Brasilia) there only 3 aprs stations:

>

```

>PT2VHF - The digi and my home station
>PT2VHF-10 - The Igate running with Winaprs Igate
>PT2VHF-7 - My car, a tracker.
>
>The crash problem with Igate (getting some bad packets from internet feed)
>is common, but not when connected only with vhf.
>
>Last week I changed the igate client from winaprs to uiview32 (registered
>version). After this modification my home client (winaprs 2.46 with kpc3+
>vhf) still getting same crash window that I had when connected with
>internet. I saw that each new station sent by igate I had another error
>window.
>
>My question. Maybe uiview are sending bad packets over internet?

```

Ok, I'm biased! But -

If some packets caused your WinAPRS a problem when WinAPRS was connected to the internet, isn't it likely that the same packets will cause a problem when it hears them via a gateway?

Also, they are unlikely to be packets that UI-View is putting onto the internet, because most packets on the internet do not originate from UI-View systems. You need to be careful not to shoot the messenger!

However, it would be very useful to myself and others if you could provide some samples of these packets. If you see a frame being sent by the gateway, and you see WinAPRS display an error window, then the frame causing the problem will always be visible in the UI-View Terminal window. If you use the Save option on the Terminal window, then you will capture a buffer containing the "bad" packet.

```

--
Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - http://www.packetradio.org.uk
For WinPack go to - http://www.peaksys.co.uk

```

```

---
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```

## 614. [aprssig] RE: More network data trashing: 60 minutes

```

From: Bill Diaz <billdiaz@megsinet.net>
Date: Mon, 12 Jun 2000 13:39:15 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-90518-2000.06.12-13.42.48--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

Ian,

I captured these today, and each one has a corrupted latitude :

```

DC7AP>APRS,S6PUYW,W6KRW-2:@121012z147105.613N/11510.62E-000/000/T>dsy/M2/In
Service W6/DC7AP/M
KB2UPP>APRS,KB2EAR-1*,WIDE:@121605z401010.1210N/17350.05W-004/000/E>dsy/M2/In
Service ]
PE1JRA>APRS,PA0JYL-2,WIDE*:@121706z6364.89N/00534.68E-000/000/E>dsy/M0/Off
duty.. ]
KN6NB-9>APRS,S4PYQS,N6EX-4,K7GIL-1:@121648z76112.713N/11807.51Ej277/035/E>ds
y/M2/In Service ]"44}S.B.County E.C.S. Chief

```

BTW, there was no raw MicE packet detected for any of these stations.

Bill KC9XG

On Monday, June 12, 2000 3:48 AM, Ian Wade [SMTP:Ian.Wade@care4free.net] wrote:

```

> Here's an interesting one, from www.aprs.net last night (Sunday 11 June):
>
>
> First, here is KB9PDM, (presumably) at home:
>
> ~~~~~
> KB9PDM>APW233,WB9TLH-10*,WIDE5-1/1:=3958.20N/08600.83W-PHG6150/WinAPRS 2.3.3
> .....
> KB9PDM>APW233,N9UWE*,WIDE5-1:=3958.20N/08600.83W-PHG6150/WinAPRS 2.3.3
> .....
>
> KB9PDM>APW233,WB9QPG-15*,WIDE5-2:=3958.20N/08600.83W-PHG6150/WinAPRS 2.3.3
> .....

```

```

>
> ~~~~~
>
> No problem with any of these. Note the first digi in each one:
> WB9TLH-10, N9UWE, WB9QPG-15.
>
>
>
> Then there is a packet from KB9PDM's TH-D7:
>
> ~~~~~
> KB9PDM-7>APRS,WB9TLH-10*,WIDE5-1/1:@
> 111819z3958.21N/08600.81Wv152/000/T>dsy/M2/In Service
>
> ~~~~~
>
> A slight change in the lat/long compared with the packets from the home
> station. Again no problem. Also, this packet was launched via WB9TLH-10.
>
>
> But look at these:
>
> -----
> Record #2269
> KB9PDM-7>APRS,KC8HFX-10*,WIDE5-3:@141957h3958.22N/08660.81Wv343/000MIC/M2/In
> Service..>
> APRS Data Type= Posit w/ time. With APRS
> Time= 14 hours 19 mins 57 secs UTC
> Lat= 39 deg 58.22 min N Long= **BAD LONG
> Icon= Van Overlay= (none)
> Course= 343 deg Speed= 000 knots (0.0 mph 0.0 kph 0.0 m/s)
>
> -----
> Record #2939
> KB9PDM-7>APRS,W8MW0*,WIDE5-2:@141958h3958.22N/08660.81Wv343/000MIC/M2/In
> Service..>
> APRS Data Type= Posit w/ time. With APRS
> Time= 14 hours 19 mins 58 secs UTC
> Lat= 39 deg 58.22 min N Long= **BAD LONG
> Icon= Van Overlay= (none)
> Course= 343 deg Speed= 000 knots (0.0 mph 0.0 kph 0.0 m/s)
>
> -----
> Record #2951
> KB9PDM-7>APRS,WA8VIW-10*,WIDE5-2:@142000h3958.22N/08660.81Wv343/000MIC/M2/In
> Service..>
> APRS Data Type= Posit w/ time. With APRS
> Time= 14 hours 20 mins 00 secs UTC
> Lat= 39 deg 58.22 min N Long= **BAD LONG
> Icon= Van Overlay= (none)
> Course= 343 deg Speed= 000 knots (0.0 mph 0.0 kph 0.0 m/s)
>
> -----
>
> At first I couldn't see why the longitude was bad (5 digits before the
> decimal point, two after, followed by "W" -- the format's OK). Then it
> clicked: HOW MANY minutes???
>
> In these last three packets, someone has blundered in the Mic-E conversion
> (but not ">dsy"). For a minutes value of 60, the original Mic-E packet
> would probably have contained the letter "X" in this position. But "X"
> actually represents 0 minutes, which is the correct value for KP9PDM's
> position.
>
> In other words, did someone forget to subtract 60 for values >= 60 .....
>
> [Donning Sherlock Holmes deerstalker]: These last three packets were
> launched via KC8HFX-10, W8MW0 and WA8VIW-10. Find out which way they were
> likely to have gone, and hence which IGate(s) they likely hit. This may
> give a clue as to what happened. To horse!
>
> 73
> Ian, G3NRW
> Technical Editor, APRS Protocol Specification
> ***** Third draft now available *****
> --
> +-----+
> | APRS on 144.800 [IO91SX] ~55km/35 miles NNW of London |

```

```

> | email: g3nrw@arrl.net |
> |
> | APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
> | APRS DECODER: http://www.netro.co.uk/aprs.htm |
> +-----+
>
> ---
> You are currently subscribed to aprssig as: BILLDIAZ@MEGSINET.NET
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
>
---
You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

```

## 615. [aprssig] Re: SSID Routing?

```

From: "Sadowski, Allan" <allan.sadowski@ncshp.org>
Date: Mon, 12 Jun 2000 15:17:18 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <LYR842-90525-2000.06.12-14.16.40--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

What if one of the destination SSID's was used to effectively say... I want my position to go to INTERNET gateway... otherwise... I don't want/need it to go everywhere..

Just a thought..

ALOHA  
AH6LS

```

> -----Original Message-----
> From: Bob Bruninga [SMTP:bruninga@nadn.navy.mil]
> Sent: Monday, June 12, 2000 12:19 PM
> To: TAPR APRS Special Interest Group
> Cc: TAPR APRS Special Interest Group
> Subject: [aprssig] Re: SSID Routing?
>
> On Mon, 12 Jun 2000, Earl Needham wrote:
>
> > >As far as I know, UIDIGI is the only firmware that provides SSID
> routing
> > >in a stand-alone TNC configuration.
> >
> > What is SSID routing? I can't remember ever hearing of it.
>
> I proposed it along with WIDEn-N in 1994/5 time frame in my
> README\DIGIS.TXT file. It took 4 years until 1998 before someone,
> (Kantronics), added it to digipeater code, but they only did the WIDEn-N
> portion of it. SSID routing is identical to WIDEn-N. Just think of it
> as "N" routing. But it does not waste the 7 bytes of a digipeater address
> to do it.
>
> But, since digipeating in APRS is limited to only a max of 7 hops, we
> decided to use the additional SSID bits above 7 for "DIRECTIONAL"
> digipeating also.
>
> The digits 8-11 indicate N,S,E and 12-15 indicates the same four
> directions but with an extra hop on the end.
>
> The objective of SSID routing was to keep trying to make packets shorter
> and shorter. A four-hop Mic-E packet with SSID routing would be:
>
> W4XX>SY0NMP-4*:'123CST/$
>
> Compared to:
>
> W4XX>SY0NMP,WA3FYN-15,WB4APR-11,KA3ATI-12,WA3TOM-11*:'123CST/$
>
> So you can see that we would gain a DOUBLING of channel capacity... in
> this case.
> But it will only work in an area where all digis support it, so no one has
> used it till now. BUT, it is built-in as a TRANSMIT option in all Mic-E's
> and Kenwoods, and ANY one can generate it... So it can be used if/when
> all DIGI's support it. OR for your special event where you need MAXIMUM
> channel efficiency and only have a few digis that you can configure for
> SSID...
>

```

> de WB4APR, Bob  
>  
>  
>  
> ---  
> You are currently subscribed to aprssig as: ALLAN.SADOWSKI@NCSHP.ORG  
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

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---

## 616. [aprssig] Re: USB Serial with WAPRS

From: Claude Head <k5dtn@swbell.net>  
Date: Mon, 12 Jun 2000 14:26:07 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90528-2000.06.12-14.36.10--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi, Dave. I have the Entrega 2U4S USB hub I'm using for APRSPlus. The four serial ports are COM3 through COM6. It all works pretty well, I did not have to do any tweaking at all to use it. APRSPlus is using port COM4. For two or three months after I got it, I had no problems at all. For the last three or four weeks, Win 98 SE has taken to forgetting about the USB box on occasion. Don't think it is an APRSPlus problem, since when the USB hub is forgotten, Win 98 forgets about ALL the serial ports. The fix, so far, is to unplug the USB cable, wait a bit, then plug it back in. Thirty or forty seconds later Win 98 says it has discovered some new serial ports, then it all works OK again, for a while. Sigh.... Let's hear it again for Microsoft! I do run the whole setup 7x24, and have found that I have to reboot the system every now and then - maybe once a week, or else it gets slower than molasses in January. Win 98 evidently can't keep track of its resources, even though it has 256 MB ram and 20+ GB of disk to play with. Good luck with your Entrega gear - I really think it is pretty good.  
73, Claude Head  
K5DTN

David VanHorn wrote:

> -----BEGIN PGP SIGNED MESSAGE-----  
> Hash: SHA1  
>  
> I have a pari of Entrega USB serial adaptors, and I am trying to get my  
> Igate back up on my main computer after a nasty crash of the aux machine.  
>  
> Unfortunately, both "real" serial ports are tied up.  
>  
> I have the latest drivers, and I can talk to the TNC through hyperterminal,  
> but with WAPRS, it appears that the incoming data does not happen unless  
> there is an outgoing char.  
> If I open a wapr terminal window, and press any key, then I start getting  
> data and responses from the TNC, one or two chars at a time.  
>  
> I've tried setting handshake to Xon, hardware, or none, no effect.  
> I've tried turning the buffers on, off, and everything inbetween, no effect.  
>  
> Anyone got a clue for me?  
>  
> - - -  
> Are you an ISP? Tired of spam?  
> www.spamwhack.com A pre-emptive strike against spam!  
>  
> Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>  
>  
> -----BEGIN PGP SIGNATURE-----  
> Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>  
>  
> iQA/AwUBOUVDj4f1GDz1l6VWEQlKJQCg4+cKF0wvMjU+50wvnyN0GF7bcPYAn1Z8  
> 8qcCke8l3lK2lBu0tp/joYnX  
> =DmHN  
> -----END PGP SIGNATURE-----  
>  
> ---  
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> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

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---

## 617. [aprssig] Re: USB Serial with WAPRS

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Mon, 12 Jun 2000 14:40:52 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90529-2000.06.12-14.45.06--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Have you gotten the Win98SE USB hub update from Microsoft?

Mark  
KC7BXS

At 02:26 PM 6/12/00, Claude Head wrote:

>at all. For the last three or four weeks, Win 98 SE has taken to forgetting  
>about the USB box on occasion. Don't think it is an APRSPlus problem,  
>since when the USB hub is forgotten, Win 98 forgets about ALL the  
>serial ports. The fix, so far, is to unplug the USB cable, wait a bit, then  
>plug it back in.

---

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## 618. [aprssig] stations.txt in WinAPRS

From: Ray Vaughan <ray@rayvaughan.com>  
Date: Mon, 12 Jun 2000 15:53:38 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90533-2000.06.12-14.56.57--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

As suggested here a couple weeks ago, I added some of the big rigs to my stations.txt file with IGATE.

It was my goal to let local RF only users see some good examples of cross country signals. Well, I thought it was going good until someone pointed out that they were seeing MULTIPLE duplicates of the same packets from me. I can see many dupes on the feed, but I had wrongly assumed that WinAPRS would see the duplicates and only send one. But I guess it causes an RF transmission for every record on the APRServe feed if the station is listed in stations.txt.

I think I'm understanding how there got to be many packets for these popular stations. Could stations that come in on the internet get reflected back to the net if they're listed as IGATE in stations.txt? Or could it be the same packet after being digi'ed back from each local digi? In either case, could WinAPRS be configured not to repeat any IGATE packet more than some set period?

Thanks.

Ray J. Vaughan, MS, CBTE, CERT  
KD4BBM PG-7-15266  
ray@rayvaughan.com  
ray@2-way.com  
<http://www.rayvaughan.com/>

---

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---

## 619. [aprssig] Re: Weather stations with APRS

From: John <johnk.mchugh@worldnet.att.net>  
Date: Mon, 12 Jun 2000 16:03:06 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>,  
aprssig@tapr.org  
Message-ID: <LYR842-90536-2000.06.12-15.03.35--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Jim Gill wrote:

>

> To the best of my knowledge (and prior testing), it will not work. I have a  
> Radio Shack WX200... and the data coming out the serial port is binary, not  
> plain ASCII text, which the KPC3Plus would require. I find no way to switch  
> the WX200 to ASCII output.

>  
> A standalone TNC/Weather/Radio setup would require something else like a  
> Peet, Davis, etc.

Jim, does the Davis support stand alone without a PC? I was under the impression that only the Peet did that.

John  
--  
John Mc Hugh, KU4GY  
Coordinator for Amateur Radio  
National Hurricane Center, W4EHW  
Miami, Florida  
Home Page: <http://www.fiu.edu/orgs/w4ehw/>

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---

## 620. [aprssig] Re: Weather stations with APRS

From: "Jim Gill" <[gillj@uswest.net](mailto:gillj@uswest.net)>  
Date: Mon, 12 Jun 2000 15:08:11 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-90539-2000.06.12-15.11.33--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> > A standalone TNC/Weather/Radio setup would require something else like a  
> > Peet, Davis, etc.  
> Jim, does the Davis support stand alone without a PC? I was under the  
> impression that only the Peet did that.

You're probably right, I had heard some locals discussing a Davis as a possible standalone, but I didn't hear the outcome. I suspect it isn't standalone-able. Right now the Peets or the new 1-wire kits are looking to be the best options.

Sorry for confusion,

Jim NØRMO

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---

## 621. [aprssig] Re: USB Serial with WAPRS

From: David VanHorn <[dvanhorn@cedar.net](mailto:dvanhorn@cedar.net)>  
Date: Mon, 12 Jun 2000 15:12:54 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-90541-2000.06.12-15.17.20--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----  
Hash: SHA1

At 02:40 PM 6/12/00 -0500, Mark Fellhauer wrote:  
>  
>Have you gotten the Win98SE USB hub update from Microsoft?

I don't know. I'm current with the "critical updates".  
How would I tell?

- - -  
Are you an ISP? Tired of spam?  
[www.spamwhack.com](http://www.spamwhack.com) A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----  
Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBOUvgZoF1GDz116VWEQLqkgCgoKq950J32ug/L0VnmMj1Al3I0TAA0Va  
jnZLoTvcI4sQoTEEObewWqav  
=CnVl  
-----END PGP SIGNATURE-----

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## 622. [aprssig] Re: TWP question/idea?

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Mon, 12 Jun 2000 16:14:03 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90542-2000.06.12-15.18.23--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Mon, 12 Jun 2000, bob (W2/G3ZFJ) wrote

> I've been following the thread on TWP and I'd like to try it here [along  
> with] my WINAPRS 24/7 with my hf gate/wx station, KamPlus  
> etc. SO, what I was thinking of doing, was to use a CITADEL with  
> aprsdata running on it and with a different callsign, say g3zfy-5.  
> Connect it to a TNC2 and then wire its mic/spkr/ptt in parallel with the  
> KAMPlus VHF outputs.

Yes, that would work. But a better way by a factor of 8 in minimizing collisions is to join them at the serial port (9600 baud), not audio ports (1200 baud).

This is exactly what the ZIP-LAN was designed to do so that you could run both PC's and let them BOTH share the single TNC. All it takes is two diodes and two resistors. But since WinAPRS does not transmit in zip-lan format (any software can "receive" on a zip-lan), then WinAPRS would have to be a listen only.

The main software function of the ZIPLAN mode is because the TNC can only have ONE callsign in it at a time. So the MASTER station leaves its callsign in the TNC all the time, and the slave's all "digipeat" in 3rd party format via the MASTER, so that the TNC call does not matter....

de WB4APR, Bob

---

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## 623. [aprssig] Re: stations.txt in WinAPRS

From: David VanHorn <dvanhorn@cedar.net>  
Date: Mon, 12 Jun 2000 15:16:23 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90544-2000.06.12-15.20.49--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----  
Hash: SHA1

At 03:53 PM 6/12/00 -0400, Ray Vaughan wrote:  
>As suggested here a couple weeks ago, I added some of the big rigs to my stations.txt file with IGATE. It was my goal to let local RF only users see some good examples of cross country signals. Well, I thought it was going good until someone pointed out that they were seeing MULTIPLE duplicates of the same packets from me. I can see many dupes on the feed, but I had wrongly assumed that WinAPRS would see the duplicates and only send one. But I guess it causes an RF transmission for every record on the APRServe feed if the station is listed in stations.txt.

I saw the same here. Apparently, if they are within range of several wifes, the local igate gets a packet through each wide (and possibly direct) and all these are put into the stream as separate packets, so they come pouring out of your igate.  
My Igate is "visible" directly by three wifes, so if there were three packets into the igate on the other end, then I'll send three, and my three local igates will each digi all three, so we get 12 copies locally.

This still looks like a good thing to do, but not as currently implemented.

- - -

Are you an ISP? Tired of spam?  
www.spamwhack.com A pre-emptive strike against spam!



Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----

Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBOUVhN4F1GDz116VWEQK+pQCeJ57G1stVAqKLoCPX2bXrhfnBbcQAoJfD  
1h5Bdp0XLG5HLKkSgeYTHthR  
=iU8S

-----END PGP SIGNATURE-----

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## 624. [aprssig] Re: TWP question/idea?

From: "bob" <[w2g3zfj@unix.asb.com](mailto:w2g3zfj@unix.asb.com)>  
Date: Mon, 12 Jun 2000 16:33:16 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-90547-2000.06.12-15.33.04--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi Bob

Yes, I was thinking of the ZIP Lan idea but I still need the winaprs functionality for the wx station, Igateing etc. I think I'll give it a try and see what happens.

73 de bob

-----Original Message-----

From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
To: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Date: Monday, June 12, 2000 16:06  
Subject: [aprssig] Re: TWP question/idea?

>On Mon, 12 Jun 2000, bob (W2/G3ZFJ) wrote

>

>> I've been following the thread on TWP and I'd like to try it here [along  
>> with] my WINAPRS 24/7 with my hf gate/wx station, KamPlus  
>> etc. SO, what I was thinking of doing, was to use a CITADEL with  
>> aprsdata running on it and with a different callsign, say g3zfj-5.  
>> Connect it to a TNC2 and then wire its mic/spkr/ptt in parallel with the  
>> KAMPlus VHF outputs.

>

>Yes, that would work. But a better way by a factor of 8 in minimizing  
>collisions is to join them at the serial port (9600 baud), not audio  
>ports (1200 baud).

>

>This is exactly what the ZIP-LAN was deisgned to do so that you could run  
>both PC's and let them BOTH share the single TNC. ALL it takes is two  
>diodes and two resistors. But since WinAPRS does not transmit in zip-lan  
>format (any software can "receive" on a zip-lan), then WinAPRS would have  
>to be a listen only.

>

>The main software function of the ZIPLAN mode is because the TNC can only  
>have ONE callsign in it at a time. So the MASTER station leaves its  
>callsign in the TNC all the time, and the slave's all "digipeat" in 3rd  
>party format via the MASTER, so that the TNC call does not matter....

>

>de WB4APR, Bob

>

>

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## 625. [aprssig] Re: stations.txt in WinAPRS

From: Steve Dimse <[k4hg@tapr.org](mailto:k4hg@tapr.org)>  
Date: Mon, 12 Jun 2000 16:30:46 -0400

To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-90549-2000.06.12-15.34.06--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 6/12/00 3:53 PM Ray Vaughan (ray@rayvaughan.com) wrote:

>I think I'm understanding how there got to be many packets for these  
>popular stations. Could stations that come in on the internet get  
>reflected back to the net if they're listed as IGATE in stations.txt? Or  
>could it be the same packet after being digi'ed back from each local digi?  
> In either case, could WinAPRS be configured not to repeat any IGATE  
>packet more than some set period?  
>

Generally dups ought to get filtered, however when there is a delay of more than a few seconds dups can appear. The first scenario, where multiple IGates retransmit, is the most likely one in this case.

APRServe sends a maximum of one position packet every 15 minutes to rf for each station listed in its "stations.txt" file (though I use a different name. All IGates should have a similar function to prevent exactly this occurrence.

Steve K4HG

---

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## 626. [aprssid] RE: More network data trashing: 60 minutes

From: Ian Wade <Ian.Wade@care4free.net>  
Date: Mon, 12 Jun 2000 21:48:55 +0100  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-90553-2000.06.12-15.54.05--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In article <LYR14778-90518-2000.06.12-13.42.48--Ian.Wade#care4free.net@lists.tapr.org>, Bill Diaz <billdiaz@megsinet.net> writes  
>Ian,  
>  
>I captured these today, and each one has a corrupted latitude :  
>  
>DC7AP>APRS,S6PUYW,W6KRW-2:@121012z147105.613N/11510.62E-000/000/T>dsy/M2/In  
>Service W6/DC7AP/M

I'd say this guy was in Las Vegas +/- a mile or two (From the Mic-E "digi", the real latitude is probably 36deg 05.97 mins).

>KB2UPP>APRS,KB2EAR-1\*,WIDE:@121605z401010.1210N/17350.05W-004/000/E>dsy/M2/In  
>Service ]

The longitude on this one looks a bit suspect as well ..... Is KB2UPP really west of Honolulu?

>PE1JRA>APRS,PA0JYL-2,WIDE\*:@121706z6364.89N/00534.68E-000/000/E>dsy/M0/Off  
>duty.. ]

Aaaa-ha! I'm willing to bet that PE1JRA is at latitude 52deg and some minutes north. Why? Because I've definitely seen something like this several times before -- each of the latitude degrees digits is one higher than it should be; e.g. 63 instead of 52, 45 instead of 34 ..... The thick plottens.

>KN6NB-9>APRS,S4PYQS,N6EX-4,K7GIL-1:@121648z76112.713N/11807.51Ej277/035/E>ds  
>y/M2/In Service ]"44}S.B.County E.C.S. Chief

And I think this guy is somewhere near Long Beach (The real latitude here is probably 34deg 09.13 mins).

What a mess!

73  
Ian, G3NRW  
Technical Editor, APRS Protocol Specification

\*\*\*\*\* Third draft now available \*\*\*\*\*

```
--
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
|
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

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## 627. [aprssig] Re: stations.txt in WinAPRS

From: David VanHorn <dvanhorn@cedar.net>  
Date: Mon, 12 Jun 2000 15:53:19 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90554-2000.06.12-15.57.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----  
Hash: SHA1

>APRServe sends a maximum of one position packet every 15 minutes to rf  
>for each station listed in its "stations.txt" file (though I use a  
>different name. All IGates should have a similar function to prevent  
>exactly this occurrence.

Just for laughs, suppose three wifes picked up mark's message, (I saw this  
most with message traffic) , and they popped it into their local igate,  
then I retransmit all three, and generate the 12 local packets, which are  
heard by another igate... Could this lead to meltdown?

- - -  
Are you an ISP? Tired of spam?  
www.spamwhack.com A pre-emptive strike against spam!  
  
Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----  
Version: GPGfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>  
  
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JqnYbAflqB0ho6YPpy5Kb4ty  
=nq+2  
-----END PGP SIGNATURE-----

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---

## 628. [aprssig] Re: stations.txt in WinAPRS

From: Steve Dimse <k4hg@tapr.org>  
Date: Mon, 12 Jun 2000 16:57:21 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90555-2000.06.12-16.00.40--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 6/12/00 6:53 PM David VanHorn (dvanhorn@cedar.net) wrote:

>Just for laughs, suppose three wifes picked up mark's message, (I saw this  
>most with message traffic) , and they popped it into their local igate,  
>then I retransmit all three, and generate the 12 local packets, which are  
>heard by another igate... Could this lead to meltdown?  
>

Messages are more likely to cause the problem. APRServe has strong  
dup-checking, aprsd had less effective checking (Dale has improved it  
greatly on the current devel version), and WinAPRS may have none.

---  
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## 629. [aprssig] Elmers page....

From: Jim Duncan <ku0g@kcaprs.org>  
Date: Mon, 12 Jun 2000 16:17:54 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90557-2000.06.12-16.21.14--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Doing some additional work on the elmers page this afternoon and noticed that there are no elmers in Minnesota, North/South Dakota, the Caribbean, South Carolina, and VE4/VE5-land... If you would like to volunteer for one of these areas, please contact me!

Also, if you have emailed me prior to 1600 CDT with a change, request for addition, etc. it HAS been added. Please check and verify your information!

--

73 de Jim, KU0G  
Chairman/Coordinator  
Kansas City APRS Working Group, W0APR  
First Alert Storm Team KMBC-TV9  
Mailto:ku0g@kcaprs.org  
Webpage: <http://www.kcaprs.org>

---

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### 630. [aprssig] "Recommended" APRS UNPROTO PATHS

From: BordingK@aol.com  
Date: Mon, 12 Jun 2000 17:37:56 EDT  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90562-2000.06.12-16.42.15--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I scanned TAPR and some of the better known APRS related home pages, but didn't find what I was really looking for so I'll ask our assembled panel of experts. Some of the sites looked like they had really old info:

Has anybody prepared a handout or similar document with the "recommended" UNPROTO paths. You know -

RELAY, WIDE for mobiles,  
WIDE3-3 rather than WIDE, WIDE, WIDE, etc.

Particularly looking for some of the more challenging ones such as HF (Is Gate still OK?) and the Internet (TCP/IP?)

If you have files or links to sites, please pass them along. Thanks in advance.

73s de W5KNB  
Ken

---

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---

### 631. [aprssig] Re: stations.txt in WinAPRS

From: Bill Diaz <billdiaz@megsinet.net>  
Date: Mon, 12 Jun 2000 16:42:42 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90565-2000.06.12-16.46.18--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Steve,

On Monday, June 12, 2000 3:57 PM, Steve Dimse [SMTP:k4hg@tapr.org] wrote:

> On 6/12/00 6:53 PM David VanHorn (dvanhorn@cedar.net) wrote:

>

> >Just for laughs, suppose three wides picked up mark's message, (I saw this  
> >most with message traffic) , and they popped it into their local igate,  
> >then I retransmit all three, and generate the 12 local packets, which are  
> >heard by another igate... Could this lead to meltdown?

> >

> Messages are more likely to cause the problem. APRServe has strong  
> dup-checking, aprsd had less effective checking (Dale has improved it  
> greatly on the current devel version), and WinAPRS may have none.

>

>

I just did a test with the D700, and WinAprs 2.4.7

D700 Transmitted location 41 34.34N, 88 03.28W  
WinAprs 2.4.7 / Internet  
KC9XG-14>APK002,KC9XG-1\*,RELAY,WIDE:@121832z4134.33N/08803.26Wk000/000/Mic-E  
/M0/Off duty>  
KC9XG-14>APRS,KC9XG-1\*,RELAY,WIDE:@121935z4134.34N/08803.28Wk000/000/E>dsy/M  
0/Off duty.. ]"6@}  
KC9XG-14>APK002,KC9XG-1\*,RELAY,WIDE:@121837z4134.33N/08803.26Wk249/000/Mic-E  
/M0/Off duty>  
KC9XG-14>APRS,KC9XG-1\*,RELAY,WIDE:@121940z4134.34N/08803.28Wk249/000/E>dsy/M  
0/Off duty.. ]"63}Monitor 146.52

WinAprs 2.4.7 / RF. Raw packet Conversion by WinAprs  
@121940z4134.33N/08803.26Wk249/000/Mic-E/M0/Off duty>

Did not see any of the raw MicE packets on the Internet or converted packets on  
the RF side.  
Looks like the WinAprs decodes it differently depending on where the data came  
from.

Bill KC9XG

---

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---

## 632. [aprssig] Re: TWP question/idea?

From: "Brian B. Riley" <brianbr@macconnect.com>  
Date: Mon, 12 Jun 2000 17:51:34 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90567-2000.06.12-16.53.05--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

----- Original Message -----

From: "bob" <w2g3zfy@unix.asb.com>  
Sent: Monday, June 12, 2000 4:33 PM

> Hi Bob  
>  
> Yes, I was thinking of the ZIP Lan idea but I still need the winaprs  
> functionality for the wx station, Igateing etc. I think I'll give it  
a try  
> and see what happens.

The best way is your original proposal, just feed a little of TX Audio  
of each to the RCV Audio of the other, then it will get a DCD  
condition and hold off transmitt. You should probably diode OR the PTT  
lines as well.

> -----Original Message-----  
> From: Bob Bruninga <bruninga@nadn.navy.mil>  
> Date: Monday, June 12, 2000 16:06  
>  
> >On Mon, 12 Jun 2000, bob (W2/G3ZFJ) wrote  
> >  
> >> I've been following the thread on TWP and I'd like to try it here  
[along  
> >> with] my WINAPRS 24/7 with my hf gate/wx station, KamPlus  
> >> etc. SO, what I was thinking of doing, was to use a CITADEL with  
> >> aprsdata running on it and with a different callsign, say  
g3zfy-5.  
> >> Connect it to a TNC2 and then wire its mic/spkr/ptt in parallel  
with the  
> >> KAMPlus VHF outputs.  
> >  
> >>Yes, that would work. But a better way by a factor of 8 in  
minimizing  
> >>collisions is to join them at the serial port (9600 baud), not  
audio  
> >>ports (1200 baud).  
> >  
> >>THIS is exactly what the ZIP-LAN was deisgned to do so that you  
could run  
> >>both PC's and let them BOTH share the single TNC. All it takes is  
two  
> >>diodes and two resistors. But since WinAPRS does not transmit in  
zip-lan  
> >>format (any software can "receive" on a zip-lan), then WinAPRS

would have  
> >to be a listen only.  
> >  
> >The main software function of the ZIPLAN mode is because the TNC  
can only  
> >have ONE callsign in it at a time. So the MASTER station leaves  
its  
> >callsign in the TNC all the time, and the slave's all "digipeat" in  
3rd  
> >party format via the MASTER, so that the TNC call does not  
matter....

--  
Brian B. Riley, N1BQ (ex-KA2BQE)  
<<http://www.wulfden.org>>

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---

### 633. [aprssig] CLUBS and NETS

From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
Date: Mon, 12 Jun 2000 17:59:39 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: [htaprs@lists.tapr.org](mailto:htaprs@lists.tapr.org)  
Message-ID: <LYR842-90570-2000.06.12-17.03.23--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

While building the "Tiny Web pages" for the 78 local clubs listed in our  
Wash DC/Baltimore area, I realized that most of them listed both their  
meeting schedule and their NET schedule. Thus, I now decided to build two  
files. One to respond to CLUB and the other to respond to NET...

Just a thought. (Im posting it here because I did not think of this till  
half way through and so have to do half of it over again...) :-(

Bob

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---

### 634. [aprssig] Re: USB Serial with WAPRS

From: Bob Boehm <[n8exf@juno.com](mailto:n8exf@juno.com)>  
Date: Mon, 12 Jun 2000 18:21:25 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: [aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)  
Message-ID: <LYR842-90575-2000.06.12-17.25.10--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

just wondering outloud,

are you guys using the USB port power source or an external power supply?

I am using 6 USB com ports and had minor hiccups until I plugged in the  
wall wart that powers the hub.

73 de Bob, N8EXF  
<http://qsy.to/N8EXF>

---

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<http://dl.www.juno.com/get/tagj>.

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---

### 635. [aprssig] Re: USB Serial with WAPRS

From: David VanHorn <dvanhorn@cedar.net>  
Date: Mon, 12 Jun 2000 17:30:42 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: aprssig@lists.tapr.org  
Message-ID: <LYR842-90579-2000.06.12-17.37.59--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----  
Hash: SHA1

At 06:21 PM 6/12/00 -0400, Bob Boehm wrote:  
>just wondering outloud,  
>  
>are you guys using the USB port power source or an external power supply?  
>  
>I am using 6 USB com ports and had minor hiccups until I plugged in the  
>wall wart that powers the hub.

I'm not using external power, never have.  
The ser ports work well under other applications.

- - -  
Are you an ISP? Tired of spam?  
www.spamwhack.com A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----  
Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBOUWAsOFlGDz1l6VWEQJwSwCe0borKVc0vY9UrPT2SP+dEMQjttYAniwM  
S78AsZHQfC+cj4jBEsxi6E4b  
=wA5M  
-----END PGP SIGNATURE-----

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## 636. [aprssig] Re: USB Serial with WAPRS

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Mon, 12 Jun 2000 17:58:23 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90581-2000.06.12-18.02.41--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I believe it would show up in add/remove programs.

Here's a link with more info:

<http://www.microsoft.com/downloads/release.asp?ReleaseID=12904>

Although it says this only occurs with AMD processors and VIA chipsets,  
I've seen the same happen with Intel chipsets and processors. I think it's  
just a new UHCD.SYS.

It will not hurt to run the update on Intel machines.

Mark  
KC7BXS

At 05:12 PM 6/12/00, David VanHorn wrote:  
>-  
>I don't know. I'm current with the "critical updates".  
>How would I tell?

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---

## 637. [aprssig] RE: More network data trashing: 60 minutes

From: "Ben Miller" <benm@uniplex.com>  
Date: Mon, 12 Jun 2000 18:08:40 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Message-ID: <LYR842-90583-2000.06.12-18.12.17--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

All,

I saw something similar with a friend here in Dallas. I think the problem is that the GPS is outputting the lat/long data in decimal rather than deg-min-sec when the application (D700 in this instance) was expecting the latter.

Someone with a GPS that can change the output format, give it a test and let us know.

Ben Miller  
KC5NFU

-----Original Message-----

From: bounce-aprssig-15665@lists.tapr.org  
[mailto:bounce-aprssig-15665@lists.tapr.org] On Behalf Of  
Ian.Wade@care4free.net  
Sent: Monday, June 12, 2000 3:49 PM  
To: aprssig@lists.tapr.org  
Subject: [aprssig] RE: More network data trashing: 60 minutes

In article <LYR14778-90518-2000.06.12-13.42.48--Ian.Wade#care4free.net@lists.tapr.org>, Bill Diaz <billdiaz@megsinet.net> writes  
>Ian,

>

>I captured these today, and each one has a corrupted latitude :

>

>DC7AP>APRS,S6PUYW,W6KRW-2:@121012z147105.613N/11510.62E-000/000/T>dsy/M2/In  
>Service W6/DC7AP/M

I'd say this guy was in Las Vegas +/- a mile or two (From the Mic-E "digi", the real latitude is probably 36deg 05.97 mins).

>KB2UPP>APRS,KB2EAR-1\*,WIDE:@121605z401010.1210N/17350.05W-004/000/E>dsy/M2/  
In  
>Service ]

The longitude on this one looks a bit suspect as well ..... Is KB2UPP really west of Honolulu?

>PE1JRA>APRS,PA0JYL-2,WIDE\*:@121706z6364.89N/00534.68E-000/000/E>dsy/M0/Off  
>duty.. ]

Aaaa-ha! I'm willing to bet that PE1JRA is at latitude 52deg and some minutes north. Why? Because I've definitely seen something like this several times before -- each of the latitude degrees digits is one higher than it should be; e.g. 63 instead of 52, 45 instead of 34 ..... The thick plottens.

>KN6NB-9>APRS,S4PYQS,N6EX-4,K7GIL-1:@121648z76112.713N/11807.51Ej277/035/E>d  
s  
>y/M2/In Service ]"44}S.B.County E.C.S. Chief

And I think this guy is somewhere near Long Beach (The real latitude here is probably 34deg 09.13 mins).

What a mess!

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

\*\*\*\*\* Third draft now available \*\*\*\*\*

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| | |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
```



+-----+

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### 638. [aprssig] Re: USB Serial with WAPRS

From: Roger Barker <roger@peaksys.co.uk>  
Date: Tue, 13 Jun 2000 00:10:59 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90584-2000.06.12-18.14.30--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In article <LYR1643-90581-2000.06.12-18.02.41--ROGER#PEAKSYS.CO.UK@lists.tapr.org>, Mark Fellhauer <sparkfel@primenet.com> writes  
>I believe it would show up in add/remove programs.  
>  
>Here's a link with more info:  
>  
><http://www.microsoft.com/downloads/release.asp?ReleaseID=12904>  
>  
>Although it says this only occurs with AMD processors and VIA chipsets,  
>I've seen the same happen with Intel chipsets and processors. I think it's  
>just a new UHCD.SYS.

For what it's worth -

I had a USB problem with an AMD K6-2/450 system. Until I installed the patch, the drivers for USB devices would refuse to load, so, if you checked them in Device Manager, they showed an error code.

As regards the USB -> RS232 adaptors, one that was sold by a major supplier in the UK, and presumably sold in other parts of the world, had a strange bug in its drivers. If an app just sent and receive data, then it worked ok. However, if an app tried to read the status of the handshaking lines (via Windows API calls, no "dirty" code or anything like that) then the driver would crash. The result was that the adaptor worked ok with some apps, but not others.

--

Roger Barker, G4IDE - roger@peaksys.co.uk  
For UI-View go to - <http://www.packetradio.org.uk>  
For WinPack go to - <http://www.peaksys.co.uk>

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### 639. [aprssig] Re: USB Serial with WAPRS

From: David VanHorn <dvanhorn@cedar.net>  
Date: Mon, 12 Jun 2000 18:01:13 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90586-2000.06.12-18.16.32--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----  
Hash: SHA1

>It will not hurt to run the update on Intel machines.

Ok, we'll just see what happens.

This is an intel proc, with a damifino chipset (at least till after I reboot)

- - -

Are you an ISP? Tired of spam?  
[www.spamwhack.com](http://www.spamwhack.com) A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----

Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBOUWH2Yf1GDz116VWEQKL1gCgpm+izliXTeFoyvjTRo1ct2w/QEAoL6x  
nBVWLnAQwr4Von3sH/AOLUCE  
=4Ri3  
-----END PGP SIGNATURE-----

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---

#### 640. [aprssig] APRSdata & APRStk

From: "Ben Miller" <[benm@uniplex.com](mailto:benm@uniplex.com)>  
Date: Mon, 12 Jun 2000 18:19:00 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-90588-2000.06.12-18.22.37--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bob,

I've just began testing APRSdata and APRStk.

I don't have any experience with the programs but have APRStk working. Can  
I run both together somehow?

Ben Miller  
KC5NFU

---

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---

#### 641. [aprssig] Re: USB Serial with WAPRS

From: David VanHorn <[dvanhorn@cedar.net](mailto:dvanhorn@cedar.net)>  
Date: Mon, 12 Jun 2000 18:10:52 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-90591-2000.06.12-18.28.46--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----  
Hash: SHA1

No difference.. :(

This is pretty damn wierd.

Could it be some TNC parm?  
I'm only using the minimum setups from WAPRS into a KPC3 with latest firmware.

- - -

Are you an ISP? Tired of spam?  
[www.spamwhack.com](http://www.spamwhack.com) A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----  
Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBOUWKHIF1GDz116VWEQLd3QCdHU/eZ+85tbG910XkI908ycCUn+EA3HC  
M1PaUf/yjLkP284c6q19ZxNy  
=hkG1  
-----END PGP SIGNATURE-----

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---

#### 642. [aprssig] Re: USB Serial with WAPRS

From: David VanHorn <[dvanhorn@cedar.net](mailto:dvanhorn@cedar.net)>  
Date: Mon, 12 Jun 2000 19:03:22 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-90599-2000.06.12-19.07.49--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

More food for thought.

It definitely looks to be TNC specific.

If I start WAPRS, and open the terminal window, I get as reported before.

If I then crash the TNC's memory at this point, I <<ALWAYS>> get the whole signon dialog, just as normal, through setting the callsign. Always exactly at the time that I press <CR> at the end of KC6ETE-5, the system starts into this wierd behaviour.

Apparently the TNC defaults aren't compatible with the USB serial port, and it's most likely some handshaking wierdness.

There's definitely something funny going on.

Those using USB serial (entrega if possible) can I have a dump of DISP from your TNC3?

- - -

Are you an ISP? Tired of spam?

www.spamwhack.com A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----

Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBOUWwaoFlGdz1l6VWEQJJAACglvAlk/9TwZgt/6GvUhq/UJwr8YcAn1yI  
/3xgK4HmAcZnLwue3ysfdVHN  
=1IZJ

-----END PGP SIGNATURE-----

---

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## 643. [aprssig] Re: APRSdata & APRStk

From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>

Date: Mon, 12 Jun 2000 20:05:03 -0400 (EDT)

To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>

Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>

Message-ID: <[LYR842-90600-2000.06.12-19.08.23--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-90600-2000.06.12-19.08.23--lyris.aprssig#tapr.org@lists.tapr.org)>

Rendered body type: text/plain

On Mon, 12 Jun 2000, Ben Miller wrote:

> I've just began testing APRSdata and APRStk.  
> I don't have any experience with the programs but have APRStk working. Can  
> I run both together somehow?

No, for the purpose of serving out satellite data on 144.39 (and other TinyWebPages), they are identical (in fact, APRSdata is "new and imporved:.. In fact, I will now remove that capability from APRStk.

APRStk is for automatically tracking the satelites at your OWN station and automatically tuning your D7 or D700 radio to each satellite when it comes into view. It then will collect packets from any FM data satellite in view.

As you can see, the two missions are mutually exclusive. APRSdata must remain on 144.39 at all times. APRStk, on the other hand, will tune yoru radio all over the place following whatever FM satellites come into view. (There are 7 right now)..  
  
de WB4APR, Bob

---

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---

## 644. [aprssig] APRSPLUS and TWP

From: Bill Vodall <wa7nwp@bigsky.com>  
Date: Mon, 12 Jun 2000 18:05:34 -0700 (PDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90601-2000.06.12-20.02.27--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

For what it's worth, Dave, VE5DGD, has had a TWP like system setup and running for over a year now... Using APRSPLUS and my old DOSAP. Doesn't (yet) use the .POS files but that shouldn't be too hard to add.

This scheme uses a call to a MS-DOS batch script to generate the items so it's completely configurable.

Here's Dave's docs:

[http://www.qsl.net/ve5dgd/aprs/html/AddOns\\_DOSAP\\_Intro.html](http://www.qsl.net/ve5dgd/aprs/html/AddOns_DOSAP_Intro.html)

73,  
Bill - WA7NWP

---  
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---

## 645. [aprssig] Re: stations.txt in WinAPRS

From: "Dick Stanich" <dstanic@c2i2.com>  
Date: Mon, 12 Jun 2000 20:31:40  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90605-2000.06.12-20.34.51--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> I think I'm understanding how there got to be many packets for these popular stations. Could stations that come in on the internet get reflected back to the net if they're listed as IGATE in stations.txt? Or could it be the same packet after being digi'ed back from each local digi? In either case, could WinAPRS be configured not to repeat any IGATE packet more than some set period?  
>

If you have your Igate setup as WIDEn-n, TRACEn-n, or worst, RELAY and there's lots of digis around that hear you... You will see tons of dups. As far as what's happening with all those dups going back into the internet feed, Steve has addressed that. It might or/ might not. Once the traffic becomes altered after bouncing around a few times, yes, the Igates see some of the dups. I do.

You can reduce how far your packets will fly by reducing your WIDEs. Now then, if you don't want the digis to repeat your feed from what you set up in stations.txt, simply change your unproto path to something they can't understand, like TCPIP or IGATE. If the locals on RF can hear you direct, why send the stuff 3-5 hops? Also, if you are in range of a single 'strong' digi, you can use it as a slave to repeat your packets... one time, with a single WIDE.

Sometimes due to poor digi planning, pray tell, packets get bounced back to the original digi (looping). Often because digis are too close to each other and the owner wants to reach and touch somebody (WIDE5-5 or greater), but they want everyone else to limit their WIDEs. If a digi is set up with lots of WIDEs, there just might be an Igate somewhere in it's path. Guess what happens?

Igates are extremely effective over long distances and replace many RF digis between those 2 points. However, digis can cover remote areas so we can see all those trucks, cars, etc. where no man has gone before!

As things become more and more congested, efforts to plan and coordinate might become a reality. I said might.

Dick, KB7ZVA  
Yuma Igate  
Southwest Arizona APRS Group

---  
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## 646. [aprssig] Re: USB Serial with WAPRS

From: Claude Head <k5dtn@swbell.net>  
Date: Mon, 12 Jun 2000 20:48:08 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90607-2000.06.12-20.51.33--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I have the Entrega 2U4S (2 USB, 4 serial) and 4U (4 USB) hubs cascaded.  
Since they both came with wall warts, I've always used the hubs with the  
wall warts powering them.  
73, Claude

David VanHorn wrote:

```
> -----BEGIN PGP SIGNED MESSAGE-----
> Hash: SHA1
>
> At 06:21 PM 6/12/00 -0400, Bob Boehm wrote:
> >just wondering outloud,
> >
> >are you guys using the USB port power source or an external power supply?
> >
> >I am using 6 USB com ports and had minor hiccups until I plugged in the
> >wall wart that powers the hub.
>
> I'm not using external power, never have.
> The ser ports work well under other applications.
>
> - - -
> Are you an ISP? Tired of spam?
> www.spamwhack.com A pre-emptive strike against spam!
>
> Where's Dave? http://www.findu.com/cgi-bin/find.cgi?kc6ete-9
>
> -----BEGIN PGP SIGNATURE-----
> Version: PGPfreeware 6.5.2 for non-commercial use <http://www.pgp.com>
>
> iQA/AwUB0UWASoF1GDz1l6VWEQJwSwCeOborKVc0vY9UrPT2SP+dEMQjYtYAniWM
> S78AsZHQfC+cj4jBEsxi6E4b
> =wA5M
> -----END PGP SIGNATURE-----
>
> ---
> You are currently subscribed to aprssig as: k5dtn@swbell.net
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
```

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---

## 647. [aprssig] Citadel PC Card drivers

From: "BobD" <BobD@virtualconst.com>  
Date: Mon, 12 Jun 2000 22:23:50 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90611-2000.06.12-21.27.07--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Anyone had any luck with loading the PC Card drivers on their Citadel  
Computer?

I am wondering where/how to place the files (do they need to be zipped up on  
the flash disk and unzipped when booting?) and what order they need to be  
loaded in config.sys

Thanks for any help that you may be able to give,

73...Bob, N2IPH

---  
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---

## 648. [aprssig] KPC3+

From: "Jimmy Burkhalter" <kb5wio@tcac.net>  
Date: Mon, 12 Jun 2000 21:33:41 -0500  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-90612-2000.06.12-21.37.00--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On the KPC3+ when you upgrade from the old 7.0 rom to the 8.3 rom is there a jumper you have to move to make it read the GPS data off the radio port instead of the serial port?

Please respond to me directly.

Jimmy Burkhalter      KB5WIO  
Amarillo, Texas

kb5wio@tcac.net

35:9:6 N 101:52:332 W

---

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## 649. [aprssid] RE: More network data trashing: 60 minutes

From: Bill Diaz <billdiaz@megsinet.net>  
Date: Mon, 12 Jun 2000 22:35:06 -0500  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-90628-2000.06.12-22.38.40--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Al,

These are MicE packets that are being improperly decoded or mangled by IGATEs.

The following were MicE packets originated by one station, and converted by one or more IGATEs. The last packet has been mangled.

```
KB2UPP>T0ZZLZ,WS2Q*,WIDE:'eN!l -/]  
KB2UPP>APK101,RELAY*,WIDE:@121925z4000.00N/07350.05W-000/000/Mic-E/M2/In  
Service>  
KB2UPP>RELAY*>WIDE>T0ZZLZ:'eN!l -/]  
KB2UPP>APK101,RELAY*,WIDE:@122027z4000.00N/07350.05W-000/000/Mic-E/M2/In  
Service>  
KB2UPP>APRS,KB2EAR-1*,WIDE:@121831z401010.1210N/17350.05W-004/000/E>dsy/M2/In  
Service ]
```

Bill KC9XG

On Monday, June 12, 2000 6:09 PM, Ben Miller [SMTP:benm@uniplex.com] wrote:

```
> All,  
>  
> I saw something similar with a friend here in Dallas. I think the problem  
> is that the GPS is outputting the lat/long data in decimal rather than  
> deg-min-sec when the application (D700 in this instance) was expecting the  
> latter.  
>  
> Someone with a GPS that can change the output format, give it a test and let  
> us know.  
>  
> Ben Miller  
> KC5NFU  
>  
> -----Original Message-----  
> From: bounce-aprssid-15665@lists.tapr.org  
> [mailto:bounce-aprssid-15665@lists.tapr.org]On Behalf Of  
> Ian.Wade@care4free.net  
> Sent: Monday, June 12, 2000 3:49 PM  
> To: aprssid@lists.tapr.org  
> Subject: [aprssid] RE: More network data trashing: 60 minutes  
>  
>  
> In article <LYR14778-90518-2000.06.12-13.42.48--Ian.Wade#care4free.net@l  
> ists.tapr.org>, Bill Diaz <billdiaz@megsinet.net> writes  
> >Ian,  
> >  
> >I captured these today, and each one has a corrupted latitude :
```

```

> >
> >DC7AP>APRS,S6PUYW,W6KRW-2:@121012z147105.613N/11510.62E-000/000/T>dsy/M2/In
> >Service W6/DC7AP/M
>
> I'd say this guy was in Las Vegas +/- a mile or two (From the Mic-E
> "digi", the real latitude is probably 36deg 05.97 mins).
>
>
>
> >KB2UPP>APRS,KB2EAR-1*,WIDE:@121605z401010.1210N/17350.05W-004/000/E>dsy/M2/
> In
> >Service ]
>
> The longitude on this one looks a bit suspect as well ..... Is KB2UPP
> really west of Honolulu?
>
>
>
> >PE1JRA>APRS,PA0JYL-2,WIDE*:@121706z6364.89N/00534.68E-000/000/E>dsy/M0/Off
> >duty.. ]
>
> Aaaa-ha! I'm willing to bet that PE1JRA is at latitude 52deg and some
> minutes north. Why? Because I've definitely seen something like this
> several times before -- each of the latitude degrees digits is one
> higher than it should be; e.g. 63 instead of 52, 45 instead of 34 .....
> The thick plottens.
>
>
>
> >KN6NB-9>APRS,S4PYQS,N6EX-4,K7GIL-1:@121648z76112.713N/11807.51Ej277/035/E>d
> s
> >y/M2/In Service ]"44}S.B.County E.C.S. Chief
>
> And I think this guy is somewhere near Long Beach (The real latitude
> here is probably 34deg 09.13 mins).
>
> What a mess!
>
>
> 73
> Ian, G3NRW
> Technical Editor, APRS Protocol Specification
> ***** Third draft now available *****
> --
> +-----+
> | APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
> | email: g3nrw@arrl.net |
> | |
> | APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
> | APRS DECODER: http://www.netro.co.uk/aprs.htm |
> +-----+
>
> ---
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> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
>
>
> ---
> You are currently subscribed to aprssig as: BILLDIAZ@MEGSINET.NET
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
>
> ---
> You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
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```

## 650. [aprssig] RE: More network data trashing: 60 minutes

```

From: Steve Dimse <k4hg@tapr.org>
Date: Mon, 12 Jun 2000 23:47:45 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-90629-2000.06.12-22.50.57--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

>Al,
> These are MicE packets that are being improperly decoded or mangled by
> IGATEs.
>
> The following were MicE packets originated by one station, and converted
> by one

```

```
>or more IGATEs. The last packet has been mangled.
>
>KB2UPP>T0ZZLZ,WS2Q*,WIDE:'eN!l -/]
>KB2UPP>APK101,RELAY*,WIDE:@121925z4000.00N/07350.05W-000/000/Mic-E/M2/In
>Service>
>KB2UPP>RELAY*>WIDE>T0ZZLZ:'eN!l -/]
>KB2UPP>APK101,RELAY*,WIDE:@122027z4000.00N/07350.05W-000/000/Mic-E/M2/In
>Service>
>KB2UPP>APRS,KB2EAR-1*,WIDE:@121831z401010.1210N/17350.05W-004/000/E>dsy/M2
>/In
>Service ]
>
Am I the only one tired of this topic? It is pretty clear that aprsd has
a bug in the conversion code. If I recall correctly, Dale borrowed the
code from another program. aprsd is an open source program. Either find
the bug and fix it, or drop the topic.
```

This is not the source of 99% of the mangled packets however, this is a simple mis-conversion.

Steve K4HG

---

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---

## 651. [aprssig] Re: USB Serial with WAPRS

From: Claude Head <k5dtn@swbell.net>  
Date: Mon, 12 Jun 2000 23:02:08 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90631-2000.06.12-23.06.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Well, I just got the updated UHCD.SYS from Microsoft and installed it. The USB serial ports are still working after the reboot! Now I'll start a timer and see how long they will continue to work. Thanks for the tip, Mark.

73, Claude  
K5DTN

Mark Fellhauer wrote:

```
> I believe it would show up in add/remove programs.
>
> Here's a link with more info:
>
> http://www.microsoft.com/downloads/release.asp?ReleaseID=12904
>
> Although it says this only occurs with AMD processors and VIA chipsets,
> I've seen the same happen with Intel chipsets and processors. I think it's
> just a new UHCD.SYS.
>
> It will not hurt to run the update on Intel machines.
>
> Mark
> KC7BX5
>
> At 05:12 PM 6/12/00, David VanHorn wrote:
> >-
> >I don't know. I'm current with the "critical updates".
> >How would I tell?
>
> ---
> You are currently subscribed to aprssig as: k5dtn@swbell.net
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
```

---

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## 652. [aprssig] Voting time!

From: Steve Dimse <k4hg@tapr.org>  
Date: Tue, 13 Jun 2000 00:07:24 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90633-2000.06.12-23.10.37--lyris.aprssig#tapr.org@lists.tapr.org>



Rendered body type: text/plain

OK, time again for user opinions on a visual presentation at findu.com.

I've done some rewriting of the wind cgi. Formerly the program simply read each weather report and plotted in, often more than one report fell on a single pixel column, resulting in a less than satisfying result. I now have a version that takes all the data for a single pixel column and averages it before drawing it.

First, the original image:

<http://www.findu.com/cgi-bin/wind.cgi?call=K4HG&last=48>

Then the new technique applied only to wind speed:

<http://www.findu.com/cgi-bin/dev.cgi?call=K4HG&last=72>

I think this is a definite improvement. Here though is one with the new code applied to the direction as well:

<http://www.findu.com/cgi-bin/dev1.cgi?call=K4HG&last=72>

This is the one I can't decide if I like, so I'm asking for your input. Compare the last two URLs and let me know by private email what you like. (And if you think I'm wrong about the second being better than the first feel free to tell me that as well!)

Steve K4HG

---

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---

## 653. [aprssig] Voting time!

From: Steve Dimse <[k4hg@tapr.org](mailto:k4hg@tapr.org)>  
Date: Tue, 13 Jun 2000 00:27:28 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-90634-2000.06.12-23.30.38--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-90634-2000.06.12-23.30.38--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Ooops, would have been better if the intervals were the same! Here are the corrected URLs...

OK, time again for user opinions on a visual presentation at findu.com.

I've done some rewriting of the wind cgi. Formerly the program simply read each weather report and plotted in, often more than one report fell on a single pixel column, resulting in a less than satisfying result. I now have a version that takes all the data for a single pixel column and averages it before drawing it.

First, the original image:

<http://www.findu.com/cgi-bin/wind.cgi?call=K4HG&last=72>

Then the new technique applied only to wind speed:

<http://www.findu.com/cgi-bin/dev.cgi?call=K4HG&last=72>

I think this is a definite improvement. Here though is one with the new code applied to the direction as well:

<http://www.findu.com/cgi-bin/dev1.cgi?call=K4HG&last=72>

This is the one I can't decide if I like, so I'm asking for your input. Compare the last two URLs and let me know by private email what you like. (And if you think I'm wrong about the second being better than the first feel free to tell me that as well!)

Steve K4HG

---

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---

## 654. [aprssig] How do you set the TNC clock from WinAPRS?

From: Earl Needham <[KD5XB@AMSAT.ORG](mailto:KD5XB@AMSAT.ORG)>  
Date: Mon, 12 Jun 2000 22:35:42 -0600

To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-90636-2000.06.12-23.52.15--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Does WinAPRS have a clock setting command for the TNC? It'd sure be nice not to have to type that out manually.

Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)  
PGP Key ID 0x00BF1A39

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

---

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---

## 655. [aprssid] RE: More network data trashing: 60 minutes

From: Ian Wade <Ian.Wade@care4free.net>  
Date: Tue, 13 Jun 2000 10:42:18 +0100  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-90687-2000.06.13-04.57.32--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In article <LYR14778-90628-2000.06.12-22.38.40--Ian.Wade#care4free.net@lists.tapr.org>, Bill Diaz <billdiaz@megsinet.net> writes

>Al,  
> These are MicE packets that are being improperly decoded or mangled by  
>IGATEs.  
>  
>The following were MicE packets originated by one station, and converted by one  
>or more IGATEs. The last packet has been mangled.  
>  
>KB2UPP>T0ZZLZ,WS2Q\*,WIDE:'eN!l -/]  
>KB2UPP>APK101,RELAY\*,WIDE:@121925z4000.00N/07350.05W-000/000/Mic-E/M2/In  
>Service>  
>KB2UPP>RELAY\*>WIDE>T0ZZLZ:'eN!l -/]  
>KB2UPP>APK101,RELAY\*,WIDE:@122027z4000.00N/07350.05W-000/000/Mic-E/M2/In  
>Service>  
>KB2UPP>APRS,KB2EAR-1\*,WIDE:@121831z401010.1210N/17350.05W-004/000/E>dsy/M2/In  
>Service ]  
>

I think I've cracked it! Bill, you're a star.

[Note: The Mic-E packet displayed here is missing one (presumably) non-printing character, so I have added a space as the Course character to make it decode properly. (The course is reported in the other packets as 000, which is encoded as non-printing 0x1c in Mic-E. In any case, this doesn't affect the argument)].

Looking at the Mic-E packet:

-----  
Record #1  
KB2UPP>T0ZZLZ,WS2Q\*,WIDE:'eN!l -/] APRS Data Type= Current Mic-E data  
Radio= Kenwood TM-D700  
Message Type= /M2/In Service  
\*\*AMBIGUOUS POSITION. Opposite corners of bounding box:  
NW Corner: Lat= 40 deg 59.99 min N Long= 73 deg 59.99 min W  
SE Corner: Lat= 40 deg 00.00 min N Long= 73 deg 00.00 min W  
Icon= House QTH VHF Overlay= (none)  
Course= 4 deg Speed= 0 knots (0.0 mph 0.0 kph 0.0 m/s)  
-----

The important thing here is that the position is \*ambiguous\*. The give-away is the existence of the letters "Z" and "L" in the destination address.

This means that \*all\* of the converted packets above are incorrect. They should have spaces in place of minutes and hundredths of minutes. i.e:

..... 40 . N/073 . W- .....  
(spaces)-->~~ ~ ~ ~ ~ ~

(Strictly speaking, the spaces aren't necessary in the longitude, but they *must* be there in the latitude).

Now, looking at your last packet again:

```
-----  
KB2UPP>APRS,KB2EAR-1*,WIDE:@121831z401010.1210N/17350.05W-004/000/E>dsy/M.....  
-----
```

1. The course is 004. This makes it look as if the conversion program inserted a space to replace a non-printing character, just like I did.
2. The latitude is reported as 401010.1210N. The first two digits (40) are correct. Now replace each successive *pair* of digits (10 10 12 10) with a space, and you get the correct latitude. (In other words, the letter "Z" in the Mic-E address was translated incorrectly to "10" and the letter "L" to "12").

I've looked back through the archives at similar problematical latitude reports, and they seem to follow a similar pattern. That is, pairs of digits appear when there should only be one character (a space).

So, a request to developers:

```
-----  
*PLEASE* *PLEASE* check your conversion routines to make sure you've handled  
position ambiguity correctly. If a Mic-E destination address contains "K", "L"  
or "Z", you must replace the corresponding latitude digit with a space,  
not with a digit 0 (and emphatically not with a pair of digits).
```

See page 42 of the APRS Protocol Specification version 1.0.1m (30 April 2000) for the details.

And a request to Kenwood users:

```
-----  
If you have a spare moment, set your position to 1, 2, 3 or 4 digits of  
position ambiguity, then transmit the packet (and make a note of the  
destination address -- it will be something "strange", like T0QSLZ, and will  
contain at least one "K", "L" or "Z").
```

Then look at the IGate output, and see how the latitude in your packet was converted. Does it have spaces in place of the ambiguous digits (correct) or zeros (incorrect)? Does it have more than nnnn.nn digits?

If the converted packet is incorrect in any way, please email me direct (g3nrw@arrl.net), with details of:

- a. the original Mic-E packet
- b. the converted packet, and
- c. (most important) the APRS software (with version number) that you are using.

This will help me enormously to confirm exactly what is happening. I will summarize here when I've reached a useful conclusion.

Thank you.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

\*\*\*\*\* Third draft now available \*\*\*\*\*

--

```
+-----+  
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |  
| email: g3nrw@arrl.net |  
| |  
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |  
| APRS DECODER: http://www.netro.co.uk/aprs.htm |  
+-----+
```

---

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To unsubscribe send a blank email to leave-aprssi-842K@lists.tapr.org

## 656. [aprssig] RE: More network data trashing: 60 minutes

From: Ian Wade <Ian.Wade@care4free.net>  
Date: Tue, 13 Jun 2000 07:06:07 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90686-2000.06.13-04.57.30--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In article <LYR14778-90583-2000.06.12-18.12.17--Ian.Wade#care4free.net@lists.tapr.org>, Ben Miller <benm@uniplex.com> writes  
>All,  
>  
>I saw something similar with a friend here in Dallas. I think the problem  
>is that the GPS is outputting the lat/long data in decimal rather than  
>deg-min-sec when the application (D700 in this instance) was expecting the  
>latter.  
>  
>Someone with a GPS that can change the output format, give it a test and let  
>us know.  
>

I don't think so, Ben. The GPS NMEA standard specifies degrees and decimal minutes, not deg/min/sec. As far as I know, the D700 doesn't understand deg/min/sec. I don't know of any GPS RX that outputs NMEA sentences in deg/min/sec.

73  
Ian, G3NRW  
Technical Editor, APRS Protocol Specification  
\*\*\*\*\* Third draft now available \*\*\*\*\*

--  
+-----+  
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |  
| email: g3nrw@arrl.net |  
| |  
| APRS PROTOCOL SPEC: <http://www.tapr.org/tapr/html/Faprswg.html> |  
| APRS DECODER: <http://www.netro.co.uk/aprs.htm> |  
+-----+

---  
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---

## 657. [aprssig] RE: More network data trashing: 60 minutes

From: Ian Wade <Ian.Wade@care4free.net>  
Date: Tue, 13 Jun 2000 11:30:25 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90693-2000.06.13-05.34.22--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In article <LYR14778-90687-2000.06.13-04.57.32--Ian.Wade#care4free.net@lists.tapr.org>, Ian Wade <Ian.Wade@care4free.net> writes  
>  
>Now, looking at your last packet again:  
>  
>-----  
>KB2UPP>APRS,KB2EAR-1\*,WIDE:@121831z401010.1210N/17350.05W-004/000'E>dsy/M.....  
>-----

Another note for the developers: the longitude conversion is wrong here as well -- the degrees value should be 073, not 173 (I just \*knew\* this guy didn't live west of Honolulu :-)

73  
Ian, G3NRW  
Technical Editor, APRS Protocol Specification  
\*\*\*\*\* Third draft now available \*\*\*\*\*

--  
+-----+  
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |  
| email: g3nrw@arrl.net |  
| |  
| APRS PROTOCOL SPEC: <http://www.tapr.org/tapr/html/Faprswg.html> |  
| APRS DECODER: <http://www.netro.co.uk/aprs.htm> |  
+-----+

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---

## 658. [aprssig] Re: Time slotting?

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Mon, 12 Jun 2000 22:48:06 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90694-2000.06.13-05.37.49--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 08:10 PM 10/11/99 +0000, Earl Needham blasted the following out into the ether:

```
> I remember a discussion on this list some time ago about using time
> slots
>to transmit in. I'd like to use this feature, but I have, so far, been
>unsuccessful in getting my TNC's clock to sync to the GPS time in the GGA
>string, as I read the docs.
>
> Is anyone using this feature with an MFJ-1270B? Do I need to add some
>sort of "clock card" to make this work? I'd like my tracker to send
>packets every three minutes, and I'd like it to stay "on time", not move 30
>or more seconds in 12 hours.
```

Eight months later, I think I have the answer.

I have set LOC E 0, LSL0T 1, LSUBNUMB 2, RTCSYNC ON, FIXTYPE 5, and UTC ON.

I now get a location packet from my tracker every two minutes, within 2 seconds or so, exactly what I have been attempting for months. The only question I have is whether the TNC transmits at that time regardless of traffic, or if it waits for a clear frequency before transmitting.

7 3  
Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)  
PGP Key ID 0x00BF1A39

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

---

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---

## 659. [aprssig] RE: More network data trashing: 60 minutes

From: Ian Wade <Ian.Wade@care4free.net>  
Date: Tue, 13 Jun 2000 11:52:18 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90697-2000.06.13-05.56.02--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In article <LYR14778-90693-2000.06.13-05.34.22--Ian.Wade#care4free.net@lists.tapr.org>, Ian Wade <Ian.Wade@care4free.net> writes

```
>>-----
>>KB2UPP>APRS,KB2EAR-1*,WIDE:@121831z401010.1210N/17350.05W-004/000/E>dsy/M.....
>>-----
>
>Another note for the developers: the longitude conversion is wrong here
>as well -- the degrees value should be 073, not 173 (I just *knew* this
>guy didn't live west of Honolulu :-)
```

And I've just realized what's wrong. The Mic-E destination address was T0ZZLZ. The letter "L" represents a longitude offset of +0 degrees (giving a degrees value of 73 + 0 = 73, which is correct), whereas the conversion program incorrectly used an offset of +100 degrees, giving a value of 73 + 100 = 173 degrees.

So, once again to the developer(s): you've got it wrong. Please read page 42 of the spec and fix the software.

73  
Ian, G3NRW  
Technical Editor, APRS Protocol Specification

\*\*\*\*\* Third draft now available \*\*\*\*\*

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

---

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---

## 660. [aprssig] RE: aprssig digest: June 12, 2000

From: "BobD" <[BobD@virtualconst.com](mailto:BobD@virtualconst.com)>  
Date: Tue, 13 Jun 2000 07:47:54 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-90702-2000.06.13-06.51.09--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-90702-2000.06.13-06.51.09--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

I think this should be something that should be included in the docs with APRSdata.

That the UNPROTO path should be kept local ( <2 hops ).

Not having one of the newer TNCs, is it possible to have multiple digi paths? What I am asking is could APRSdata (which also operates as a local user terminal) use one path (a short one) for QDOS queries and another (user defined) path for beacons, messaging, etc. (all the 'normal' APRS stuff)?

----- Bob(w2/g3zfj) wrote -----

If I keep the path for the aprsdata to local only it shouldn't add to = much load to the network.

Anyone see any problems with this approach before I wire it up???

73 de bob  
w2/g3zfj  
-----

On the subject of software creating the .POS files, I was thinking that a web-based app would be great. A user could navigate to the web page and enter the data and their email address, then using CGI or javascript or what ever process the data and then email the resulting .POS file (properly formatted and in ASCII Text) to the user.

The page would contain a table of fields to be filled in with the required parameters for each resource to be included in the .POS file, the user could choose the name of the output file too.

73...Bob, N2IPH  
[www.qsl.net/n2iph](http://www.qsl.net/n2iph)

---

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---

## 661. [aprssig] APRS Event List 6-13-2000

From: [K3for@aol.com](mailto:K3for@aol.com)  
Date: Tue, 13 Jun 2000 08:59:19 EDT  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-90715-2000.06.13-08.02.37--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-90715-2000.06.13-08.02.37--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

APRS-SIG Event list for 6-13-2000

All events welcome. Send posts to [k3for@aol.com](mailto:k3for@aol.com) in fixed-character format like the table below. View table in fixed 80 character width for even columns.

Skip/K3FOR  
Annapolis

| DDMM  | LOCAT | START/STOP/DUR | FREQS USED  | CALLS                 | EVENT                                                                                   |
|-------|-------|----------------|-------------|-----------------------|-----------------------------------------------------------------------------------------|
| 17JUN | NYC   | 0600-1800      | 144.390 (?) | N2ZRC+                | Swim Around Manhattan<br><a href="mailto:n2zrc@webspan.net">n2zrc@webspan.net</a>       |
| 17JUN | KC,KS | 0700CDT        | 144.340     | KA0JLF-11<br>N3KKM-11 | TRIPLE APRS BALLOON LNCH<br>EMAIL: <a href="mailto:n3kkm@kcnet.com">n3kkm@kcnet.com</a> |

19JUN USA 0800PDT to APRS VHF/HF N9XTN-11 <http://www.kcnet.com/~n3kkm>  
AUG 6 KE7A-9 American Lung Association  
Seattle to Wash DC Big Ride Across America

Sent to [aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org) every few days as event  
scheduling are requested.

---

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---

## 662. [aprssid] About Your Website

From: "Web Host" <[els@elhost.com](mailto:els@elhost.com)>  
Date: Mon, 12 Jun 2000 06:36:29 -0700  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <LYR842-90723-2000.06.13-08.38.42--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hello There,

When you host with us, we take care of the domain name and domain registration. You won't have to go through the hassle of registering a domain with someone, remembering confusing IP numbers, or setting anything up. We do it all for you and we even cover the \$35 registration and annual fees. All you have to do is pick the domain name you want. It's quick. It's easy.

You receive 10 megabytes of web space for your site. This can be used for html, graphics, scripts, anything you need for your personal or business site. Need more? We can do that. Contact Elhost with your specific needs and we'll provide a custom and cost-effective solution.

With our easy to use POP email manager, you can set up as many email accounts as you want at your domain. Give email access to your employees, friends, family members, or whoever you want! Need more? It's easy! Contact Us.  
All for \$139 per year.

For More Information Visit Us at <http://www.elhost.com>

Thank You for your time.

---

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---

## 663. [aprssid] Re: Linux UI-Digipeater

From: Hamish Moffatt <[hamish@cloud.net.au](mailto:hamish@cloud.net.au)>  
Date: Wed, 14 Jun 2000 00:16:34 +1000  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <LYR842-90729-2000.06.13-09.20.12--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Fri, Jun 02, 2000 at 04:40:02PM -0500, John Gorkos wrote:

> Jeff-  
> Have you (or anyone else on the SIG) gotten both aprsdigi and aprsd to  
> co-exist? Like I said before, Alan's aprsdigi requires:  
> Red Hat RPM: aprsdigi-2.0-pre3-1.i386.rpm ( 73k bytes, Friday,  
> 07-May-1999 17:59:11 EDT).  
> ax25-utils-2.1.42a-n2ygk: Hacked up ax25-utils needed for  
> aprsdigi-2.0 and Linux kernel 2.2.  
>  
> As far as I can tell, it needs a recompiled kernel with Alan's  
> modifications, plus an additional libax25.so which is incompatible with  
> all the OTHER ax25 utils. As I said before, they seem to be mutually  
> exclusive, which causes me pain... :(

Sorry for the late reply, I've been out of touch with this list for  
a bit.

I can supply a patch (to anyone who wants it) for aprsdigi  
which will make it work with standard kernel, ax25-tools etc.  
It's the same patch used in the Debian package of aprsdigi  
(which I maintain).

In fact I've put it on the web:  
<http://aprs.cloud.net.au/aprsdigi.patch>

I run aprsdigi + aprsd here. Great combination. 'Linux Powered.'

Hamish

--

Hamish Moffatt VK3SB <hamish@debian.org> <hamish@cloud.net.au>

---

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---

## 664. [aprssig] Re: Bad data crashing WinAPRS

From: Hamish Moffatt <hamish@cloud.net.au>  
Date: Wed, 14 Jun 2000 00:17:39 +1000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90730-2000.06.13-09.21.04--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Fri, Jun 02, 2000 at 01:45:21PM -0400, Bruno Quesnel wrote:

> After following this thread, it seems that the IGATES are the problem. Since  
> many operate only on RF and no problem, and as soon as you connect to an IGATE,  
> the problem happens.

Under no circumstances should an APRS client crash due  
to bad data from any source.

Hamish

--

Hamish Moffatt VK3SB <hamish@debian.org> <hamish@cloud.net.au>

---

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---

## 665. [aprssig] Re: About Your Website

From: "Mike Yettsko" <myetsko@insydesw.com>  
Date: Tue, 13 Jun 2000 10:23:06 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90731-2000.06.13-09.24.20--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hmm, I wonder, this SPAM has me POed...

I checked out the web site, and there isn't a feedback area, only a tie  
to their email. And with SPAM from them already on this list, I can  
just  
see what you'd get if you complained to them.

Me? I'm taking the path of making sure they are blocked and  
badmouthed at every possible turn. I can't badmouth their service,  
as that would be unsubstantiated libel, but I CAN personally attest  
that they SPAMED me, and why in the world would anyone who  
needs a web page go to SPAMMER unless they were brain dead?

That argument usually wins friends and influences people for the  
SPAMer!

Mike

----- Original Message -----

From: Web Host <els@elhost.com>  
To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Sent: Monday, June 12, 2000 9:36 AM  
Subject: [aprssig] About Your Website

Hello There,

When you host with us, we take care of the domain name and domain  
registration. You won't have to go through the hassle of registering a  
domain with someone, remembering confusing IP numbers, or setting  
anything up. We do it all for you and we even cover the \$35  
registration and annual fees. All you have to do is pick the domain  
name you want. It's quick. It's easy.

You receive 10 megabytes of web space for your site. This can be used  
for html, graphics, scripts, anything you need for your personal or  
business site. Need more? We can do that. Contact Elhost with your



specific needs and we'll provide a custom and cost-effective solution.

With our easy to use POP email manager, you can set up as many email accounts as you want at your domain. Give email access to your employees, friends, family members, or whoever you want! Need more? It's easy! Contact Us.  
All for \$139 per year.

For More Information Visit Us at <http://www.elhost.com>

Thank You for your time.

---

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---

## 666. [aprssig] Re: About Your Website

From: "Brian P. Mileschosky" <[n5zgt@swcp.com](mailto:n5zgt@swcp.com)>  
Date: Tue, 13 Jun 2000 08:22:24 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-90732-2000.06.13-09.26.22--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-90732-2000.06.13-09.26.22--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Is it time perhaps that TAPR does some looking into ways to prevent these spams from slipping into the mailing list? This is at least the second one in a week or two. Hopefully it doesn't get worse.

73,  
Brian, N5ZGT

----- Original Message -----

From: Web Host <[els@elhost.com](mailto:els@elhost.com)>  
To: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Sent: Monday, June 12, 2000 7:36 AM  
Subject: [aprssig] About Your Website

> Hello There,  
>  
> When you host with us, we take care of the domain name and domain registration. You won't have to go through the hassle of registering a domain with someone, remembering confusing IP numbers, or setting anything up. We do it all for you and we even cover the \$35 registration and annual fees. All you have to do is pick the domain name you want. It's quick. It's easy.  
>  
> You receive 10 megabytes of web space for your site. This can be used for html, graphics, scripts, anything you need for your personal or business site. Need more? We can do that. Contact Elhost with your specific needs and we'll provide a custom and cost-effective solution.  
>  
> With our easy to use POP email manager, you can set up as many email accounts as you want at your domain. Give email access to your employees, friends, family members, or whoever you want! Need more? It's easy! Contact Us.  
> All for \$139 per year.  
>  
> For More Information Visit Us at <http://www.elhost.com>  
>  
>  
> Thank You for your time.  
>  
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>  
>

---

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---

## 667. [aprssig] Re: first.aprs.net:23 not allowing logons

From: Hamish Moffatt <hamish@cloud.net.au>  
Date: Wed, 14 Jun 2000 00:28:03 +1000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90733-2000.06.13-09.31.24--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Mon, Jun 12, 2000 at 12:19:03AM -0400, Steve Dimse wrote:  
> Yes, this is a privileged port, but all it takes is to edit the  
> /etc/protocol file to move telnet to another port (and thereby provide  
> additional security) and then edit the aprsd.conf file to make the  
> unbuffered port 23.

That means running aprsd as root; if you're using the plain  
TNC interface (ie not my modified version), you shouldn't need  
to run aprsd as root otherwise.

Hamish  
--  
Hamish Moffatt VK3SB <hamish@debian.org> <hamish@cloud.net.au>

---  
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---

## 668. [aprssig] Re: More network data trashing: 60 minutes

From: Hamish Moffatt <hamish@cloud.net.au>  
Date: Wed, 14 Jun 2000 00:31:40 +1000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90735-2000.06.13-09.34.58--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Tue, Jun 13, 2000 at 11:52:18AM +0100, Ian Wade wrote:  
> So, once again to the developer(s): you've got it wrong. Please read page 42  
> of the spec and fix the software.

I will investigate aprsd for problems in the sockets code asap  
(within 24 hours hopefully). If it's a bug in the Mic-E conversion,  
it most likely affects aprsdigi as well, which does Mic-E conversions  
on repeated packets.

Hamish  
--  
Hamish Moffatt VK3SB <hamish@debian.org> <hamish@cloud.net.au>

---  
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---

## 669. [aprssig] Re: Bad data crashing WinAPRS <LYR12366-90730-2000.06.13-09.21.04--kb2ici#amsat.org@lists.tapr.org>

From: Mark Sproul <kb2ici@amsat.org>  
Date: Tue, 13 Jun 2000 10:34:16 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90739-2000.06.13-09.39.21--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>On Fri, Jun 02, 2000 at 01:45:21PM -0400, Bruno Quesnel wrote:  
>> After following this thread, it seems that the IGATES are the  
>>problem. Since  
>> many operate only on RF and no problem, and as soon as you connect to an  
>>IGATE,  
>> the problem happens.  
>  
>Under no circumstances should an APRS client crash due  
>to bad data from any source.  
>  
>

I agree with you completely and a little over a year ago we totally  
re-wrote our parsing code to make it more bullet proof. But they  
keep coming out with more powerful bullets. I have step thru  
the code many times looking for every possible place it could  
screw up, obviously I have not found them all but I will keep looking  
for more.

Any help, speccically data that DOES crash it will be appreciated

Mark

---

|                                 |                    |
|---------------------------------|--------------------|
| Mark Sproul                     |                    |
| Software Engineer @ Assoc Press | Work: 609-860-7120 |
| msproul@apmail.ap.org           | Fax: 609-860-7129  |
| kb2ici@amsat.org (either is OK) |                    |

---

---

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---

## 670. [aprssig] Re: first.aprs.net:23 not allowing logons

From: Steve Dimse <k4hg@tapr.org>  
Date: Tue, 13 Jun 2000 10:39:08 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90740-2000.06.13-09.42.32--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 6/13/00 10:28 AM Hamish Moffatt (hamish@cloud.net.au) wrote:

>> Yes, this is a privileged port, but all it takes is to edit the  
>> /etc/protocol file to move telnet to another port (and thereby provide  
>> additional security) and then edit the aprsd.conf file to make the  
>> unbuffered port 23.  
>  
>That means running aprsd as root; if you're using the plain  
>TNC interface (ie not my modified version), you shouldn't need  
>to run aprsd as root otherwise.  
>  
If you run it in daemon mode, it will run as root. Not a problem anyway,  
I trust myself with the root password ;-)

Anything run as root can be a security risk, but finding an exploit is not an easy thing, there are none of aprsd that I've heard of, nor much incentive for a hacker to look for one. There is nothing on the machine that needs to be protected to any exceptional degree. The use of tripwire and a few other security utilities provide a reasonable amount of security for this machine.

And of course, you should never set up a server unless the system owner has authorized it, which is the other reason for not running root.

Steve K4HG

---

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---

## 671. [aprssig] Mic-E Forensics: Phone Home

From: Ian Wade <Ian.Wade@care4free.net>  
Date: Tue, 13 Jun 2000 15:44:38 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90741-2000.06.13-09.48.24--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I've just added a coarse lat/long filter to APRSdec to try to trap callsigns that appear to be a long way from home. For example, any call starting with A, N, K or W is expected to be within the contiguous 48 -- lat in the range 15-50N, long in the range 65-125W. (I know, this doesn't cover the man in Honolulu, but it's just a test for now).

Running last Sunday's www.aprs.net log through APRSdec now throws up many \*GROSS\* Mic-E conversion errors. The reported latitude bears no obvious resemblance to the real latitude, and the longitude offset (+100 degrees) is ignored in all cases.

Here is a small sample:

-----  
Record #2718  
KC5PVL-9>APK002,W6KRW-2\*,WIDE3:@111822z3259.01N/11704.41W>350/020/Mic-E/M1/Enroute>[ ] "6A)  
APRS Data Type= Posit w/ time. With APRS  
Day= 11 Time= 18 hours 22 mins UTC

Lat= 32 deg 59.01 min N Long= 117 deg 04.41 min W  
Icon= Car Overlay= (none)  
Course= 350 deg Speed= 020 knots (23.0 mph 37.0 kph 10.3 m/s)  
Altitude= 735 feet (224 meters)

[\*\*\*COMMENT: This is OK, but now look at the next one from the same station].

-----  
Record #2719  
KC5PVL-9>APRS,SR5YPS,W6KRW-2\*:@111829z7945.30N/01704.43E>350/020/E>dsy/M0/Off duty.. ]"6A}  
APRS Data Type= Posit w/ time. With APRS  
Day= 11 Time= 18 hours 29 mins UTC  
Lat= 79 deg 45.30 min N Long= 17 deg 04.43 min E  
\*\*QUESTION: Is this lat/long position reasonable? It seems a long way from home.  
Icon= Car Overlay= (none)  
Course= 350 deg Speed= 020 knots (23.0 mph 37.0 kph 10.3 m/s)  
Altitude= 735 feet (224 meters)

[\*\*\*COMMENT: The lat, long and Mic-E message code are nonsense.  
The Mic-E dest address (which appears as a "digi" SR5YPS) actually  
correlates with the posit and Mic-E message code in the first report].

-----  
Record #3846  
N7FSP-7>APK101,N70EP-10\*,WIDE3-2:@111828z4732.21N/02222.65W-000/000/Mic-E/M0/Off duty>  
APRS Data Type= Posit w/ time. With APRS  
Day= 11 Time= 18 hours 28 mins UTC  
Lat= 47 deg 32.21 min N Long= 22 deg 22.65 min W  
\*\*QUESTION: Is this lat/long position reasonable? It seems a long way from home.  
Icon= House QTH VHF Overlay= (none)  
Course= (Indeterminate) deg Speed= 000 knots (0.0 mph 0.0 kph 0.0 m/s)

-----  
Record #3925  
K7GPS-9>APK101,K7GPS-10\*,WIDE4-3:@111829z4639.20N/02259.76Wv061/050/Mic-E/M2/In Service> Dave  
Aerostar Mobile  
APRS Data Type= Posit w/ time. With APRS  
Day= 11 Time= 18 hours 29 mins UTC  
Lat= 46 deg 39.20 min N Long= 22 deg 59.76 min W  
\*\*QUESTION: Is this lat/long position reasonable? It seems a long way from home.  
Icon= Van Overlay= (none)  
Course= 061 deg Speed= 050 knots (57.5 mph 92.6 kph 25.7 m/s)

-----  
Record #4026  
KD7DPU-10>APRS,KC7NYP\*,WIDE5-2:@111829z4830.65N/02238.46W<210/000/Mic-E/M2/In Service>  
APRS Data Type= Posit w/ time. With APRS  
Day= 11 Time= 18 hours 29 mins UTC  
Lat= 48 deg 30.65 min N Long= 22 deg 38.46 min W  
\*\*QUESTION: Is this lat/long position reasonable? It seems a long way from home.  
Icon= Motorcycle Overlay= (none)  
Course= 210 deg Speed= 000 knots (0.0 mph 0.0 kph 0.0 m/s)

-----  
Record #2712  
KF6VMM-9>APRS,S4PTQS,W6KRW-2\*:@111829z7945.20N/01744.73E>000/000/E>dsy/M0/Off duty.. ]"79}  
APRS Data Type= Posit w/ time. With APRS  
Day= 11 Time= 18 hours 29 mins UTC  
Lat= 79 deg 45.20 min N Long= 17 deg 44.73 min E  
\*\*QUESTION: Is this lat/long position reasonable? It seems a long way from home.  
Icon= Car Overlay= (none)  
Course= (Indeterminate) deg Speed= 000 knots (0.0 mph 0.0 kph 0.0 m/s)  
Altitude= 1007 feet (307 meters)

-----  
Record #2728  
WB6DUO-7>APRS,SS5QTV,W6KRW-2\*:@111829z7945.20N/01803.44E>000/000/E>dsy/M0/Off duty..  
]wb6duo@zipnet.net  
APRS Data Type= Posit w/ time. With APRS  
Day= 11 Time= 18 hours 29 mins UTC  
Lat= 79 deg 45.20 min N Long= 18 deg 03.44 min E  
\*\*QUESTION: Is this lat/long position reasonable? It seems a long way from home.  
Icon= Car Overlay= (none)  
Course= (Indeterminate) deg Speed= 000 knots (0.0 mph 0.0 kph 0.0 m/s)

-----  
Record #6653

KI7AB-14>APRS,RELAY\*,WIDE:@111838z4549.25N/02230.85Wk317/000/Mic-E/M2/In Service>  
APRS Data Type= Posit w/ time. With APRS  
Day= 11 Time= 18 hours 38 mins UTC  
Lat= 45 deg 49.25 min N Long= 22 deg 30.85 min W  
\*\*QUESTION: Is this lat/long position reasonable? It seems a long way from home.  
Icon= Truck Overlay= (none)  
Course= 317 deg Speed= 000 knots (0.0 mph 0.0 kph 0.0 m/s)

[\*\*\*COMMENT: This one is bad. See the next one for the correct posit etc].

-----  
Record #6654  
KI7AB-14>APRS,RELAY\*,WIDE:@111843z4549.26N/12230.86Wk317/000/E>dsy/M2/In Service  
APRS Data Type= Posit w/ time. With APRS  
Day= 11 Time= 18 hours 43 mins UTC  
Lat= 45 deg 49.26 min N Long= 122 deg 30.86 min W  
Icon= Truck Overlay= (none)  
Course= 317 deg Speed= 000 knots (0.0 mph 0.0 kph 0.0 m/s)

-----  
Record #8212  
KF6VMM-9>APRS,W6KRW-2\*,WIDE2:@111849z3404.13N/11744.73W>000/000/E>dsy/M2/In Service ]"6u}  
APRS Data Type= Posit w/ time. With APRS  
Day= 11 Time= 18 hours 49 mins UTC  
Lat= 34 deg 04.13 min N Long= 117 deg 44.73 min W  
Icon= Car Overlay= (none)  
Course= (Indeterminate) deg Speed= 000 knots (0.0 mph 0.0 kph 0.0 m/s)  
Altitude= 906 feet (276 meters)

[\*\*\*COMMENT: This is OK, but see the next one]

-----  
Record #8213  
KF6VMM-9>APRS,S4PTQS,W6KRW-2\*:@111849z7945.20N/01744.73E>000/000/E>dsy/M0/Off duty.. ]"6u}  
APRS Data Type= Posit w/ time. With APRS  
Day= 11 Time= 18 hours 49 mins UTC  
Lat= 79 deg 45.20 min N Long= 17 deg 44.73 min E  
\*\*QUESTION: Is this lat/long position reasonable? It seems a long way from home.  
Icon= Car Overlay= (none)  
Course= (Indeterminate) deg Speed= 000 knots (0.0 mph 0.0 kph 0.0 m/s)  
Altitude= 906 feet (276 meters)

-----  
Record #8250  
KF6OUC-2>APRS,K6IXA-3,W6KRW-2\*,WIDE3:@111849z3708.20N/11835.90W[000/000/T>dsy/M5/Special...  
BOJAN@RF.NET  
APRS Data Type= Posit w/ time. With APRS  
Day= 11 Time= 18 hours 49 mins UTC  
Lat= 37 deg 08.20 min N Long= 118 deg 35.90 min W  
Icon= Jogger Overlay= (none)  
Course= (Indeterminate) deg Speed= 000 knots (0.0 mph 0.0 kph 0.0 m/s)

[\*\*\*COMMENT: This is OK, but see the next one]

-----  
Record #8251  
KF6OUC-2>APRS,3W0XRP,K6IXA-3,W6KRW-2\*:@111849z7945.30N/01835.90E[000/000/T>dsy/M0/Off duty...  
BOJAN@RF.NET  
APRS Data Type= Posit w/ time. With APRS  
Day= 11 Time= 18 hours 49 mins UTC  
Lat= 79 deg 45.30 min N Long= 18 deg 35.90 min E  
\*\*QUESTION: Is this lat/long position reasonable? It seems a long way from home.  
Icon= Jogger Overlay= (none)  
Course= (Indeterminate) deg Speed= 000 knots (0.0 mph 0.0 kph 0.0 m/s)

-----  
Record #8218  
W6GOS>APRS,W6KRW-2\*,WIDE3:@111849z3343.38N/11804.02W[000/000/E>dsy/M5/Special... [[[[>HBRACES  
Chief Radio Officer 5203801@skytel.com  
APRS Data Type= Posit w/ time. With APRS  
Day= 11 Time= 18 hours 49 mins UTC  
Lat= 33 deg 43.38 min N Long= 118 deg 04.02 min W  
Icon= Jogger Overlay= (none)  
Course= (Indeterminate) deg Speed= 000 knots (0.0 mph 0.0 kph 0.0 m/s)

[\*\*\*COMMENT: This is OK, but see the next one]

```
-----
Record #8219
W6GOS>APRS,3S4SSX,W6KRW-2*:@111849z7945.30N/01804.02E[000/000/E>dsy/M0/Off duty.. [[[[>HBRACES
Chief Radio Officer 5203801@skytel.com
APRS Data Type= Posit w/ time. With APRS
Day= 11 Time= 18 hours 49 mins UTC
Lat= 79 deg 45.30 min N Long= 18 deg 04.02 min E
**QUESTION: Is this lat/long position reasonable? It seems a long way from home.
Icon= Jogger Overlay= (none)
Course= (Indeterminate) deg Speed= 000 knots (0.0 mph 0.0 kph 0.0 m/s)
-----
```

And on and on.

DEVELOPERS: please analyze these reports to find out what's been going wrong.

[By jove, in my day I'd have had the culprits horsewhipped and transported to the colonies, don'tya know. Trouble is, these guys are in the colonies already <grin>].

73  
Ian, G3NRW  
Technical Editor, APRS Protocol Specification  
\*\*\*\*\* Third draft now available \*\*\*\*\*

```
--
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

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---

## 672. [aprssi] Re: About Your Website

From: "Mike Yetko" <myetko@insydesw.com>  
Date: Tue, 13 Jun 2000 10:51:31 -0400  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-90743-2000.06.13-09.52.49--lyris.aprssi@lists.tapr.org>  
Rendered body type: text/plain

I think there needs to be a VERY VISIBLE and DETECTABLE feedback path. SPAM the group, everyone spreads the word. That's the only way to shut these people down.

While I said it wasn't a good idea to send email to them, I DID send my original posting to the email address that was used to post to the group.

If I end up getting SPAMED from that, I think I will take other action against them. Just have to see.

When the group got SPAMED about a year or so ago for a "FAX" service, it turned out the guy who did it was (I suspect) just a single guy working from his apartment. I got his phone number and pestered the crap out of him (it was a local call) and pretty much was polite but "I would like to know" kind of thing. I think he got QUITE tired of dealing with me!

Mike

----- Original Message -----  
From: Brian P. Milesosky <n5zgt@swcp.com>  
To: TAPR APRS Special Interest Group <aprssi@lists.tapr.org>  
Sent: Tuesday, June 13, 2000 10:22 AM  
Subject: [aprssi] Re: About Your Website

> Is it time perhaps that TAPR does some looking into ways to prevent these  
> spams from slipping into the mailing list? This is at least the second one  
> in a week or two. Hopefully it doesn't get worse.  
>  
> 73,  
> Brian, N5ZGT  
>  
> ----- Original Message -----  
> From: Web Host <els@elhost.com>  
> To: TAPR APRS Special Interest Group <aprssid@lists.tapr.org>  
> Sent: Monday, June 12, 2000 7:36 AM  
> Subject: [aprssid] About Your Website  
>  
>  
> > Hello There,  
> >  
> > When you host with us, we take care of the domain name and domain registration. You won't have to go through the hassle of registering a domain with someone, remembering confusing IP numbers, or setting anything up. We do it all for you and we even cover the \$35 registration and annual fees. All you have to do is pick the domain name you want. It's quick.  
> > It's easy.  
> >  
> > You receive 10 megabytes of web space for your site. This can be used for  
> > html, graphics, scripts, anything you need for your personal or business site. Need more? We can do that. Contact Elhost with your specific needs  
> > and we'll provide a custom and cost-effective solution.  
> >  
> > With our easy to use POP email manager, you can set up as many email accounts as you want at your domain. Give email access to your employees,  
> > friends, family members, or whoever you want! Need more? It's easy!  
> > Contact Us.  
> > All for \$139 per year.  
> >  
> > For More Information Visit Us at <http://www.elhost.com>  
> >  
> >  
> > Thank You for your time.  
> >  
> > ---  
> > You are currently subscribed to aprssid as: n5zgt@swcp.com  
> > To unsubscribe send a blank email to  
> > leave-aprssid-842K@lists.tapr.org  
> >  
> >  
> >  
> > ---  
> > You are currently subscribed to aprssid as: myetsko@insydesw.com  
> > To unsubscribe send a blank email to  
> > leave-aprssid-842K@lists.tapr.org  
> >  
> >

---  
You are currently subscribed to aprssid as: lyris.aprssid@tapr.org  
To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org

## 673. [aprssid] Re: About Your Website

From: Steve Dimse <k4hg@tapr.org>  
Date: Tue, 13 Jun 2000 10:58:05 -0400  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-90745-2000.06.13-10.01.20--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bad enough spam happens, worse if we have to look at 20 messages over the next two days discussing it. Please take it to an anti-spam mail list!

Steve K4HG

---

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---

## 674. [aprssig] Re: Bad data crashing WinAPRS

From: Bruno Quesnel <quesnelb@ve2.ele.etsmtl.ca>  
Date: Tue, 13 Jun 2000 11:03:15 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90747-2000.06.13-10.04.03--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hamish Moffatt wrote:

> On Fri, Jun 02, 2000 at 01:45:21PM -0400, Bruno Quesnel wrote:  
> > After following this thread, it seems that the IGATES are the problem. Since  
> > many operate only on RF and no problem, and as soon as you connect to an IGATE,  
> > the problem happens.  
>  
> Under no circumstances should an APRS client crash due  
> to bad data from any source.

But if the problem can be eliminated or filtered at the source, it would solve a bit of problems. I've seen many problems reported on this list, caused by MIC-E devices, IGATE removing characters in a packet.

And these are only two examples that are recent. I received comments that IGATE should do filtering. No problem their, but again, not only one program exist for doing IGATE. Also, it is my perception that many "version" actually broadcast as MIC-E devices, but without all the same format causing havoc in certain software.

It is my opinion that a compromise should be done between the client, the broadcaster and the source, so that a certain standard be respected. For sure, NO SHOULD crash for badly form data which could arrive due to misconfiguration or transmission problems.

Each system should involve a bit of fault tolerance....

>  
>  
> Hamish  
> --  
> Hamish Moffatt VK3SB <hamish@debian.org> <hamish@cloud.net.au>  
>  
> ---  
> You are currently subscribed to aprssig as: quesnelb@ve2.ele.etsmtl.ca  
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

--  
Bruno Quesnel  
VA2BMG  
Stagiaire - MindReady Solutions  
tel.: 514-828-5171  
bruno.quesnel@mindready.com  
quesnelb@ve2.ele.etsmtl.ca

---

## 675. [aprssig] Re: Mic-E Forensics: Phone Home

From: David VanHorn <dvanhorn@cedar.net>  
Date: Tue, 13 Jun 2000 10:12:29 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90749-2000.06.13-10.16.56--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----  
Hash: SHA1

>Running last Sunday's www.aprs.net log through APRSdec now throws up many  
>\*GROSS\* Mic-E conversion errors. The reported latitude bears no obvious  
>resemblance to the real latitude, and the longitude offset (+100 degrees)  
>is ignored in all cases.

Is APRSdec publicly available?

- - -  
Are you an ISP? Tired of spam?  
www.spamwhack.com A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>



-----BEGIN PGP SIGNATURE-----

Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBOUZrIFlGDz1l6VWEQI3GQCgngFfgMxHjuNUe/RHLtQMEvt56kwAn1/0  
NKW2aicZBjhivDNXgxv04XG7  
=Cl6L

-----END PGP SIGNATURE-----

---

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---

## 676. [aprssig] ALA BIG RIDE ACROSS AMERICA

From: "David Dobbins" <[ddobbins@localaccess.com](mailto:ddobbins@localaccess.com)>  
Date: Tue, 13 Jun 2000 08:08:14 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-90750-2000.06.13-10.17.29--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I mentioned the upcoming Big Ride Across America ([www.bigrade.com](http://www.bigrade.com)) a couple months ago and at the time was hoping to volunteer two weeks to assist the support team as they head out from Seattle June 19th, bound for Washington, DC, arriving August 5th. There will be over 200 bicyclists all riding to help the cause of the American Lung Association. Radio Shack is the primary sponsor this year, and donated all the components for a VHF/HF tracker. Dick Anderson/KE7A and I will finish the installation aboard the lead RV in Seattle this week. Steve Dimse/K4HG has been a real blessing in this effort and developed a special tracker page so that family and friends can monitor the movement of the group as they trek across the country. The link site is <http://bigrade.findu.com>. My hat is off to Steve for his expertise to make this happen. I'm sure we'll have more requests for special development like this as APRS supports future "national" events. I play with this stuff everyday, and I still can't help but go "Wow, this is way cool!" Dave/K7GPS

-----  
David S. Dobbins  
POB 217  
Pe Ell, WA 98572  
(360) 291-3707

Amateur Radio: K7GPS  
NWAPRS: [www.nwaprs.org](http://www.nwaprs.org)  
Find me on the internet:  
[map.findu.com/k7gps-9](http://map.findu.com/k7gps-9)  
-----

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---

## 677. [aprssig] Re: Mic-E Forensics: Phone Home

From: "Jeff Brenton" <[jeffb@espi.com](mailto:jeffb@espi.com)>  
Date: Tue, 13 Jun 2000 10:01:20 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-90752-2000.06.13-10.25.34--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> DEVELOPERS: please analyze these reports to find out what's been going wrong.

Actually, the reports you're showing seem to \*ME\* to be consistent with a previously-mentioned problem, i.e., the difference in how an AEA TNC formats the header and everyone else does. Whatever program is doing the translation is pulling the wrong thing for the TO: address, screwing up the results.

The multiple packets, some correct, others wrong, would seem to indicate two stations in the same area acting as gateways, with different TNCs. Operating the TNCs in KISS mode would likely fix the problem.

Jeff Brenton  
President,  
Engineered Software Products, Inc  
<http://espi.com>  
Questionable web page: <http://dididahdahdidit.com>  
Northern Illinois APRS Network: <http://nian.aprs.net>

My goal in life: To be remembered as someone who always stated what should have been obvious to everyone in the first place.

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---

## 678. [aprssig] Re: ALA BIG RIDE ACROSS AMERICA

From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
Date: Tue, 13 Jun 2000 12:21:25 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-90758-2000.06.13-11.24.46--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-90758-2000.06.13-11.24.46--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

On Tue, 13 Jun 2000, David Dobbins wrote:

> The upcoming Big Ride Across America ([www.bigrider.com](http://www.bigrider.com)) from Seattle  
> June 19th, bound for Washington DC, arriving August 5th. There will be  
> over 200 bicyclists... Radio Shack... donated all the components for a  
> VHF/HF tracker.

I added the route to the 4 major regional maps in APRSdos. It shows the route and the dates and the stops. Download and unzip directly into your APRS\MAPS directory.

<ftp://tapr.org/aprssig/aprsstuff/APRSdos/braa-map.zip>

de WB4APR, Bob

It includes USANWEST, USANCEN, OH-MI-WV, USAEAST

---

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---

## 679. [aprssig] Re: Mic-E Forensics: Phone Home

From: Ian Wade <[Ian.Wade@care4free.net](mailto:Ian.Wade@care4free.net)>  
Date: Tue, 13 Jun 2000 17:10:51 +0100  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-90762-2000.06.13-11.37.20--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-90762-2000.06.13-11.37.20--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

In article <[4.0.1.20000613101056.03851100@mail.cedar.net](mailto:4.0.1.20000613101056.03851100@mail.cedar.net)>, David VanHorn <[dvanhorn@cedar.net](mailto:dvanhorn@cedar.net)> writes  
>  
>Is APRSdec publicly available?  
>

Hi Dave. There is already a version available at <http://www.netro.co.uk/aprs.htm>  
However, that version does not include the error checking and other features that I've mentioned in this list lately.

I'm planning to release a new version RSN (I still have some testing to do -- having made critical remarks about other people's software, I have to make sure mine is OK :-))

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

\*\*\*\*\* Third draft now available \*\*\*\*\*

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| | |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

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---

## 680. [aprssig] Re: Mic-E Forensics: Phone Home

From: Ian Wade <Ian.Wade@care4free.net>  
Date: Tue, 13 Jun 2000 17:24:26 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90761-2000.06.13-11.37.17--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain  
In article <LYR14778-90752-2000.06.13-10.25.34--Ian.Wade#care4free.net@lists.tapr.org>, Jeff Brenton <jeffb@espi.com> writes

>Actually, the reports you're showing seem to \*ME\* to be consistent with a  
>previously-mentioned problem, i.e., the difference in how an AEA TNC  
>formats the header and everyone else does. Whatever program is doing the  
>translation is pulling the wrong thing for the T0: address, screwing up the  
>results.

I'm sure you're right.

>  
>The multiple packets, some correct, others wrong, would seem to indicate  
>two stations in the same area acting as gateways, with different TNCs.  
>Operating the TNCs in KISS mode would likely fix the problem.

So would having a half-way competent programmer writing code to parse  
the headers properly .....

73  
Ian, G3NRW  
Technical Editor, APRS Protocol Specification  
\*\*\*\*\* Third draft now available \*\*\*\*\*

```
--
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

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---

## 681. [aprssi] Re: Mic-E Forensics: Phone Home

From: Ian Wade <Ian.Wade@care4free.net>  
Date: Tue, 13 Jun 2000 18:00:26 +0100  
To: "TAPR APRS Special Interest Group" <aprssi#lists.tapr.org>  
Message-ID: <LYR842-90766-2000.06.13-12.04.09--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In article <LYR14778-90741-2000.06.13-09.48.24--Ian.Wade#care4free.net@lists.tapr.org>, Ian Wade <Ian.Wade@care4free.net> writes  
>Here is a small sample:

I've just noticed a common thread running through the reports: all of  
the bad packets with reported latitudes of around 79 degrees go through  
W6KRW-2. Coincidence? Worth a look.

73  
Ian, G3NRW  
Technical Editor, APRS Protocol Specification  
\*\*\*\*\* Third draft now available \*\*\*\*\*

```
--
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

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---

## 682. [aprssi] Mic-E converter in aprsd

From: Dale Heatherington <dale@wa4dsy.net>  
Date: Tue, 13 Jun 2000 13:35:50 -0400  
To: "TAPR APRS Special Interest Group" <aprssi#lists.tapr.org>

Message-ID: <LYR842-90771-2000.06.13-12.58.42--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

My aprsd server program uses the Mic-E converter code written by Alan Crosswell. I used it as-is with assurances that it worked correctly. Today, after the discovery of the KB2UPP>T0ZZLZ... packet, I began looking closely at the code to see if I could determine the problem. It's pretty bad actually. The most amazing thing is it's been in use for several years with few complaints.

What's wrong?

To get the latitude digits the code simply uses the low 4 bits of the ax25 destination field without modification. This is wrong for all characters above 9 and explains the instances of 10s 11s and 12s where single digits or spaces should have been. Also the East,West,South,North and +100 decodings depend on the state of bit 6 instead of using " less than 'P' " as the determining factor.

I'm working on fixing these errors.

--

Dale Heatherington  
dale@wa4dsy.net  
Web Page <http://www.wa4dsy.net>  
Sent by KMail for Linux

---

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---

## 683. [aprssid] Re: Mic-E converter in aprsd

From: Ian Wade <Ian.Wade@care4free.net>  
Date: Tue, 13 Jun 2000 20:00:09 +0100  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-90778-2000.06.13-14.03.55--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

In article <0006131355080C.00716@lab1>, Dale Heatherington <dale@wa4dsy.net> writes

>

>

>What's wrong?

>To get the latitude digits the code simply uses the low 4 bits of the  
>ax25 destination field without modification. This is wrong  
>for all characters above 9 and explains the instances of 10s  
>11s and 12s where single digits or spaces should have been.  
>Also the East,West,South,North and +100 decodings depend on the  
>state of bit 6 instead of using " less than 'P' " as the determining factor.

It looks as if this was following the very early Mic-E documentation (that preceded the APRS Protocol Spec). That documentation had several significant errors and was quite misleading in places. I suspect we haven't seen many errors until now because there were very few Mic-E stations active in the early days.

[Also, where the early documentation fell down completely was in the handling of Custom messages. Again, this wasn't discovered earlier because Mic-E units don't support Custom messages. That's why I completely re-wrote the Mic-E documentation, replacing the incorrect encoding algorithm with the table on page 42 of the current spec].

>

>I'm working on fixing these errors.

That's great news!

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

\*\*\*\*\* Third draft now available \*\*\*\*\*

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| | email: g3nrw@arrl.net |
| | |
```

| APRS PROTOCOL SPEC: <http://www.tapr.org/tapr/html/Faprswg.html> |  
| APRS DECODER: <http://www.netro.co.uk/aprs.htm> |  
+-----+

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## 684. [aprssig] Maximum speed query and strange data

From: "Thomas M. Schaefer" <[toms@inconnect.com](mailto:toms@inconnect.com)>  
Date: Tue, 13 Jun 2000 13:54:34 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-90786-2000.06.13-14.57.15--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I was playing around with some different queries into FINDu and I thought it would be interesting to see what the top recorded speed of a station was.

I made a CGI at the following URL:

<http://www.xmission.com/~uarc/cgi-bin/aprs3.cgi?call=k4hg-8&start=1000>

If you do that query it will look up the maximum speed in the database in the last 1000 hours for k4hg-8. It then displays any records that are at that speed. The interesting point is that the system has a recorded speed of 245 mph (knots?) for Steve on June 12. Just in case the Perl Whirl cruise ship was hauling...I did this same query for me (NY4I-15) and I come up with 749 for a max.

Is there anyway to find out if this is bad GPS data or what another cause could be? Is it possible that the GPS could send out bad data in this case and is there anyway to determine if the GPS data is accurate except to look at it statistically?

I guess I could filter out the obvious noise, but that is not an exact science for good telemetry.

Tom NY4I

---

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## 685. [aprssig] Re: Maximum speed query and strange data

From: Steve Dimse <[k4hg@tapr.org](mailto:k4hg@tapr.org)>  
Date: Tue, 13 Jun 2000 15:59:01 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-90787-2000.06.13-15.02.15--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 6/13/00 3:54 PM Thomas M. Schaefer ([toms@inconnect.com](mailto:toms@inconnect.com)) wrote:

>Is there anyway to find out if this is bad GPS data or what another cause  
>could be? Is it possible that the GPS could send out bad data in this case  
>and is there anyway to determine if the GPS data is accurate except to look  
>at it statistically?

>

>I guess I could filter out the obvious noise, but that is not an exact  
>science for good telemetry.

>

Samer problem, bad Mic-E conversions.

Steve K4HG

---

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---

## 686. [aprssig] Re: Mic-E Forensics: Phone Home

From: David VanHorn <[dvanhorn@cedar.net](mailto:dvanhorn@cedar.net)>  
Date: Tue, 13 Jun 2000 15:09:29 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-90788-2000.06.13-15.14.12--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

>I'm planning to release a new version RSN (I still have some testing to do --  
>having made critical remarks about other people's software, I have to make  
sure  
>mine is OK :-))

Best have your running shoes on, before you smack the bear! :)

- - -

Are you an ISP? Tired of spam?  
www.spamwhack.com A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----

Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBOUaxGYf1GDz1l6VWEQJHZgCgwhIdaXbsVHJZKoJOK9fhhg/HxsoAoNqn  
nT7kx9+kOIuvTW8jhp1hW55  
=e5Kc

-----END PGP SIGNATURE-----

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---

## 687. [aprssig] Portable I-gate

From: "Lee Cierieszko" <[n4tcw@goamerica.net](mailto:n4tcw@goamerica.net)>  
Date: Tue, 13 Jun 2000 16:03:40 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-90792-2000.06.13-15.17.33--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-90792-2000.06.13-15.17.33--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Crazy idea occurred to me: a portable I-gate(2 way).  
Will be running a P233MMX laptop in the truck w/WinAPRS, KPC3+(8.3, second  
serial port gps) 12 G HD, !CDPD MODEM! w/fairly constant connection(flat  
rate service charge). Idea would be to take in local traffic to Internet  
and RF-gate? Messages back to local stations w/o! taking in the whole server  
station list(CDPD runs at 19k2 and I also use it for e-mail and Internet  
access). I would NOT be running as a digi, only a gate. Ideas on software  
and usefulness would be appreciated.

Lee N4TCW

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---

## 688. [aprssig] Re: Remove bad data from findu.com

From: Steve Dimse <[k4hg@tapr.org](mailto:k4hg@tapr.org)>  
Date: Tue, 13 Jun 2000 16:18:33 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-90797-2000.06.13-15.21.54--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-90797-2000.06.13-15.21.54--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

On 6/13/00 4:13 PM Richard Parry ([rparry@qualcomm.com](mailto:rparry@qualcomm.com)) wrote:

>In looking at findu.com for my call W9IF-2, I also find W9Iv#-2. I find  
>other calls with equally illegal characters. I think these packets should  
>be "dropped" and not put into findu.com. You can get clever with searching  
>for legitimate callsigns, but at least drop callsigns with illegal  
>characters. There may be some reason why you did this, but I can't think  
>of it.

Better detection of bad data is on the list, just haven't got around to  
it. Someone is echoing large quantities of bad data, I think it may be on  
purpose, but don't feel motivated to track them down...

Sooner or later someone will probably take over the policeman role, three  
years was enough for me.

Steve K4HG

---

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---

## 689. [aprssid] findu.com - drop impossible callsigns

From: Richard Parry <rparry@qualcomm.com>  
Date: Tue, 13 Jun 2000 13:19:54 -0700  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-90798-2000.06.13-15.23.22--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Steve,

In looking at findu.com for my call W9IF-2, I also find W9IV#-2. I find other calls with illegal characters. I think these packets should be "dropped" and not put into findu.com. You can get clever with searching for legitimate callsigns, I merely suggest dropping callsigns with illegal characters. There may be some reason why you did this, but I can't think of it.  
Rich Parry, W9IF

---

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---

## 690. [aprssid] Re: findu.com - drop impossible callsigns

From: Ray Vaughan <ray@rayvaughan.com>  
Date: Tue, 13 Jun 2000 17:14:35 -0400  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Cc: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-90799-2000.06.13-16.18.05--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 01:19 PM 6/13/00 -0700, you wrote:

>Steve,

>

>In looking at findu.com for my call W9IF-2, I also find W9IV#-2. I find other calls with illegal characters. I think these packets should be "dropped" and not put into findu.com. You can get clever with searching for legitimate callsigns, I merely suggest dropping callsigns with illegal characters. There may be some reason why you did this, but I can't think of it.

>Rich Parry, W9IF

If you REALLY want to see a mess, look at this:

[http://www.findu.com/cgi-bin/find.cgi?kd4bbm\\*](http://www.findu.com/cgi-bin/find.cgi?kd4bbm*)

(For some reason, when I cut and paste that URL to Eudora, the \* at the end isn't part of the link. You want to end the URL with \* after the M before hitting enter. That way, you'll see all 29 of the stations starting with KD4BBM)

kd4bbm  
kd4bbm-6  
kd4bbm-12  
kd4bbm-14

are the only valid ones. The rest are crap. Since I'm acting as the local I-Gate using WinAPRS 2.4.6, is there anything I can do to tighten things up? Could I have something set wrong on my KAM to allow this trash in? I have to think the errors are happening on the air. But shouldn't something at the packet level catch this?

I was thinking about filters... i.e. one digit before the -, but what about tactical calls? We can't throw out the baby with the bath water.

---

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## 691. [aprssid] Re: findu.com - drop impossible callsigns

From: Steve Dimse <k4hg@tapr.org>  
Date: Tue, 13 Jun 2000 17:29:36 -0400  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-90803-2000.06.13-16.33.16--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 6/13/00 5:14 PM Ray Vaughan (ray@rayvaughan.com) wrote:

>enter. That way, you'll see all 29 of the stations starting with KD4BBM)

>

>kd4bbm  
>kd4bbm-6

>kd4bbm-12  
>kd4bbm-14  
>  
>are the only valid ones. The rest are crap.

It is this, and several other similar instances, that make me believe this is deliberate QRM. It does not happen with every call, even others in the Miami area. If someone wants to track this down, a good starting point is the new port 14502, which tells you the origin of every packet. I used to spend hours tracking down things like this, sure glad this isn't my problem!

Steve K4HG

---

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## 692. [aprssig] Packet Cluster locations

From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
Date: Tue, 13 Jun 2000 17:51:53 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-90806-2000.06.13-16.55.40--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-90806-2000.06.13-16.55.40--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

I still am having no luck finding a list of DX packet clusters with their frequencies and Locations. ANY ideas?

Bob

---

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## 693. [aprssig] Re: first.aprs.net:23 not allowing logons

From: Hamish Moffatt <[hamish@cloud.net.au](mailto:hamish@cloud.net.au)>  
Date: Wed, 14 Jun 2000 07:59:15 +1000  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-90807-2000.06.13-17.02.31--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-90807-2000.06.13-17.02.31--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

On Tue, Jun 13, 2000 at 10:39:08AM -0400, Steve Dimse wrote:  
> Anything run as root can be a security risk, but finding an exploit is  
> not an easy thing, there are none of aprsd that I've heard of, nor much

I agree. I err on the side of safety, though; if it doesn't need to run as root, don't. What I need to do is enhance my modified aprsd to drop its root privileges after it no longer needs them. It needs them to open the receive socket (which is effectively packet sniffing the AX.25 port, which requires root) and probably to open writable files like the history file. After that it can change to user nobody.

> And of course, you should never set up a server unless the system owner  
> has authorized it, which is the other reason for not running root.

Agreed.

Hamish

--

Hamish Moffatt VK3SB <[hamish@debian.org](mailto:hamish@debian.org)> <[hamish@cloud.net.au](mailto:hamish@cloud.net.au)>

---

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## 694. [aprssig] RE: ALA BIG RIDE TRACKER

From: Robert Donnell <[kd7nm@pugetsound.net](mailto:kd7nm@pugetsound.net)>  
Date: Tue, 13 Jun 2000 15:01:25 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-90808-2000.06.13-17.04.45--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-90808-2000.06.13-17.04.45--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

At the suggestion of Dave Dobbins, K7GPS, I'm forwarding the message below to this list. I've removed Dave's original posting to our local list, for brevity. Look for preceding messages to the same subject for his original



mailing.

>Northwest Automatic Position Reporting System SIG Mailing List  
>---  
>Hi Dave, and all,  
>  
>I wish I were going!  
>  
>As a little bit of background, the American Lung Association has put  
>together fund raising rides since the early 80's, with rides across the US  
>in the later '80s, known as the Trans-America rides.  
>  
>I became involved with supporting the local 3-day rides in 1986, and had  
>the pleasure of supporting the one (and only) Pacific Coast Bicycle Trek  
>for 26 days in September/October 1989. I continue to help with the local  
>rides, and hope to do this year, moving to a house of my own not  
>withstanding. These kinds of activities also put more useful emergency  
>preparedness training into less time than any exercise I know of, all the  
>way from beginner level to being able to manage an activity in progress,  
>all while it's moving through a neighborhood at about 10 miles an hour.  
>The daily event management is done 'in motion'.  
>  
>The long rides are great activities, both from a support and rider  
>perspective. The main reason is that you're all working together for a  
>good cause for several weeks, long enough to get to know and develop  
>long-term friendships between all the participants. We all work together  
>to help every rider to reach their goal on the ride. To this end, we've  
>chipped in money to replace a bike when it got stolen, etc.  
>  
>For most of that ride, I worked as the radio operator and backup mechanic  
>in the mechanic's van, running to and fro to get everyone back on their  
>bikes and rolling. I also packed along a small laptop and accepted and  
>delivered NTS messages from riders and staff to friends and family. I sure  
>wish I wasn't moving - I'd have liked to have volunteered to help out with at  
>least part of this ride.  
>  
>If the Big Ride passes through your town, go cheer the riders on. If they  
>stay the night, open your hearts to them, they're truly prolific fund  
>raisers for an excellent cause. A lot of the time the radio staff operates  
>on simplex, to avoid inundating the local repeaters. The amateur group  
>created cross-band radio hardware long before any of the amateur  
>manufacturers offered it for sale, to allow them to create a moving  
>communications chain sometimes more than 100 miles long across the  
>countryside, from where ever camp was 'last night' to where ever camp is  
>'tonight'. If it turns out that the staff is looking for assistance, in  
>the form of a bike shop to buy parts from, to someplace to get one of the  
>vehicles or radios fixed, they'll appreciate any assistance offered.  
>  
>73, Bob  
>

-----  
Bob Donnell, KD7NM kd7nm@pugetsound.net  
Western Washington Amateur IP Address Coordinator (425) 775-3651  
----- <http://wetnet.wa.com/~kd7nm> -----

---

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## 695. [aprssig] Re: Packet Cluster locations

From: "Bill Kearns" <[billk@inland.net](mailto:billk@inland.net)>  
Date: Tue, 13 Jun 2000 17:30:07 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-90817-2000.06.13-19.38.33--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain  
  
> I still am having no luck finding a list of DX packet clusters with their  
> frequencies and Locations. Any ideas?  
>  
> Bob

here are some urls...  
<http://www.cestro.com/pcluster/dxpfiles.html> rf nodes  
  
<http://www.cestro.com/pcluster/telnet.html> telnet nodes

---

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## 696. [aprssig] Re: Packet Cluster locations

From: Eric Cuthbert <cuthbert@sympatico.ca>  
Date: Tue, 13 Jun 2000 20:40:52 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90818-2000.06.13-19.43.57--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

this site might help you out.

--73-- Eric - va3ewc

<http://www.cestro.com/pcluster/dxnodes.html>

Bob Bruninga wrote:

>  
> I still am having no luck finding a list of DX packet clusters with their  
> frequencies and Locations. ANY ideas?  
>  
> Bob  
>  
> ---  
> You are currently subscribed to aprssig as: cuthbert@sympatico.ca  
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---

## 697. [aprssig] Re: Packet Cluster locations (whoops missed one)

From: "Bill Kearns" <billk@inland.net>  
Date: Tue, 13 Jun 2000 17:39:05 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90819-2000.06.13-19.47.29--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>  
> > I still am having no luck finding a list of DX packet clusters with  
their  
> > frequencies and Locations. ANY ideas?  
> >  
> > Bob

try this instead....

<http://cestro.com/pcluster/dxnodes.html>

---

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## 698. [aprssig] New to APRS with a TM-D700A

From: "Richard Roberts" <richroberts@mediaone.net>  
Date: Tue, 13 Jun 2000 21:17:51  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90826-2000.06.13-21.21.12--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I am new to the world of APRS just purchasing a Kenwood TM-D700A and have had problems getting it interfaced with the laptop. I am running a Dell laptop and Windows 98 but I don't seem to receive an information or calls on the map nor does it seem like I am sending out anything. I haven't been able to find the default settings for the DOS APRS program. I would rather use my 486 since I am running this in DOS and avoid using the Dell at all.

This just doesn't seem to communicate with the TM-D700A because I have also noticed that I can't program the radio either with the laptop even though I am using a straight through cable. RS232-C.

Any help would be welcome as I am trying to get this set up for Field Day operation this year. Also if anyone has a suggestions on interfacing a Garmin Color street pilot to the TM-D700A, I would appreciate it. I have the Garmin data cable and a brown wire and white wire that are in the cable

that I am not sure how to hook up. Would appreciate any feedback.

Many thanks in advance.

Rich

---

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## 699. [aprssig] APRS Stuff

From: Dr Samuel Guccione <sguccion@outland.dtcc.edu>  
Date: Tue, 13 Jun 2000 23:12:43 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90831-2000.06.13-22.16.02--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Am cleaning out excess equipment.

MIC-E kit unassembled \$80

MIC-E assembled \$90

Motorola Oncore GPS board with McKinney interface \$185

Trimble active GPS antenna \$50

\*\*\*\*\*  
Dr. Sam Guccione            Delaware Technical & Community College  
Chair Engineering        Terry Campus  
Technologies/Physics    1832 North duPont Highway  
302-741-2802            Dover, DE 19901  
ARS K3BY                302-741-2837 Fax  
\*\*\*\*\*  
                 Delaware Rockets For Schools Payload Home Page  
                 <http://www.dtel.terry.dtcc.edu/~rocket>  
\*\*\*\*\*

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## 700. [aprssig] Re: Packet Cluster locations

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Tue, 13 Jun 2000 23:23:35 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90832-2000.06.13-22.27.23--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Perfect, thanks. No LAT/LONGS, but at least by city...

bob

On Tue, 13 Jun 2000, Bill Kearns wrote:

```
>
> > I still am having no luck finding a list of DX packet clusters with their
> > frequencies and Locations. Any ideas?
> >
> > Bob
> >
> > here are some urls...
> > http://www.cestro.com/pcluster/dxpfiles.html rf nodes
> >
> > http://www.cestro.com/pcluster/telnet.html telnet nodes
> >
> > ---
> > You are currently subscribed to aprssig as: bruninga@nadn.navy.mil
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> >
> >
```

APRSDOS REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org  
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060  
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>  
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>  
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

---

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---

## 701. [aprssig] Re: Maximum speed query and strange data

From: "Brian B. Riley" <brianbr@macconnect.com>  
Date: Tue, 13 Jun 2000 23:41:27 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90834-2000.06.13-22.42.35--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

----- Original Message -----

From: "Thomas M. Schaefer" <toms@inconnect.com>  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Sent: Tuesday, June 13, 2000 3:54 PM  
Subject: [aprssig] Maximum speed query and strange data

> I was playing around with some different queries into FINDu and I  
thought it  
> would be interesting to see what the top recorded speed of a station  
was.  
>  
> I made a CGI at the following URL:  
>  
>  
<http://www.xmission.com/~uarc/cgi-bin/aprs3.cgi?call=k4hg-8&start=1000>  
>  
> If you do that query it will look up the maximum speed in the  
database in  
> the last 1000 hours for k4hg-8. It then displays any records that  
are at  
> that speed. The interesting point is that the system has a recorded  
speed of  
> 245 mph (knots?) for Steve on June 12. Just in case the Perl Whirl  
cruise  
> ship was hauling...I did this same query for me (NY4I-15) and I come  
up with  
> 749 for a max.

Well for N1BQ-8 it came up with a moderate 644 mph on a course of  
378 ... uhhhh and by the coordinates given I was on the rough dirt  
road about a half mile from my house - anyone travelling that road  
over 25 mph even in a HUM-V would have to have a kidney transplant!

> Is there anyway to find out if this is bad GPS data or what another  
cause  
> could be? Is it possible that the GPS could send out bad data in  
this case  
> and is there anyway to determine if the GPS data is accurate except  
to look  
> at it statistically?

--

Brian B. Riley, N1BQ (ex-KA2BQE)  
<<http://www.wulfden.org>>

---

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---

## 702. [aprssig] Partial findu database reset

From: Steve Dimse <k4hg@tapr.org>  
Date: Tue, 13 Jun 2000 23:49:19 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90835-2000.06.13-22.52.31--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I cleared out the last position table to eliminate some of the problems with the bad call signs, and beefed up the parsing to keep them from entering the system in the future. I had to reset the message table as well, so the last few months of APRS wisdom is lost...sorry ;-)

The only problem people may experience is that the find pages will not have posits until they are heard again.

Also, I have redirected map.aprs.net to findu, in anticipation of other changes to the network that may be necessary in the near future.

Steve K4HG

---

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## 703. [aprssig] Interesting occurrence

From: Claude Head <k5dtn@swbell.net>  
Date: Tue, 13 Jun 2000 23:28:31 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-90837-2000.06.13-23.32.05--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I was running an errand in the car earlier this evening. I had my Garmin GPS 48 in operation as usual, displaying the "breadcrumb" trail. I was also feeding the Garmin NMEA data to my Dell laptop, running DeLorme's Street Atlas V7.0 and displaying the track on the Street Atlas screen. Was not running any form of APRS at the time. The tracks were very good and accurate on both displays, as they have been ever since Selective Availability was turned off.

I was stopped at a traffic signal when I glanced at the computer screen and saw that the track was suddenly displaced about 200 yards to the southeast. The Garmin display showed the same sudden displacement. This condition was stable - showing no further movement - until the traffic light turned green. I guess I was stopped at the traffic signal for some 30 to 40 seconds. I started moving again and at that time both tracks returned "instantaneously" to their original positions. >From that point all the way home - about six miles - everything was completely normal again. I've never seen anything like that before. Anyone else seen such an event?

I've been following the thread about sudden displacements evidently caused by damaged packets or incorrect parsing algorithms in APRS - displacements generally much greater than I observed - but I was not running any form of APRS at the time. Since both displays showed the same thing, the NMEA strings were probably consistent. There were three large - 15 to 20 story - mirrored buildings ranging from about 100 yards to 300 yards away in the vicinity. I guess that this might be a reflection from one of the buildings which caused the sudden shift in position. Does that sound possible?

73, Claude Head  
K5DTN

---

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## 704. [aprssig] UI View & GPS Beacons

From: "John Williams" <[johnrwil@ozemail.com.au](mailto:johnrwil@ozemail.com.au)>  
Date: Wed, 14 Jun 2000 14:27:00 +0930  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-90849-2000.06.14-00.00.38--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi All,

I connected a Magellan 315 to a MFJ-1270b for the first time instead of using winaprs with a HSP cable.

The UI-View users in the area mentioned that they could not decode my GGA and RMC sentences.

Thinking I may have something wrong I checked my setup with Winparks and Xastir. Both programs showed my track, course, speed and altitude.

So, what do I need to check for in my tnc config or what do the UI-View users need to check.

Thanks

John VK5ZTY

---

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## 705. [aprssig] Re: Interesting occurrence

From: Gerry Creager N5JXS <gerry@cs.tamu.edu>  
Date: Wed, 14 Jun 2000 07:44:52 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90889-2000.06.14-07.49.25--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Claude Head wrote:

>  
> I was running an errand in the car earlier this evening.  
> I had my Garmin GPS 48 in operation as usual, displaying  
> the "breadcrumb" trail. I was also feeding the Garmin  
> NMEA data to my Dell laptop, running DeLorme's Street  
> Atlas V7.0 and displaying the track on the Street Atlas  
> screen. Was not running any form of APRS at the time.  
> The tracks were very good and accurate on both displays,  
> as they have been ever since Selective Availability was  
> turned off.  
>  
> I was stopped at a traffice signal when  
> I glanced at the computer screen and saw that  
> the track was suddenly displaced about 200 yards to the  
> southeast. The Garmin display showed the same sudden  
> displacement. This condition was stable - showing no  
> further movement - until the traffic light turned green.  
> I guess I was stopped at the traffic signal for some 30 to  
> 40 seconds. I started moving again and at that time both  
> tracks returned "instantaneously" to their original positions.  
> >From that point all the way home - about six miles - everything  
> was completely normal again. I've never seen anything like that  
> before. Anyone else seen such an event?  
>  
> I've been following the thread about sudden displacements  
> evidently caused by damaged packets or incorrect parsing  
> algorithms in APRS - displacements generally much greater  
> than I observed - but I was not running any form of APRS  
> at the time. Since both displays showed the same thing, the  
> NMEA strings were probably consistent. There were three  
> large - 15 to 20 story - mirrored buildings ranging from  
> about 100 yards to 300 yards away in the vicinity. I guess  
> that this might be a reflection from one of the buildings which  
> caused the sudden shift in position. Does that sound  
> possible?

Repeat after me: Multipath can distort autonomous positions significantly. Multipath can be the largest contributor to the error budget you encounter. Multipath is evil. Multipath is evil.

The large buildings are, no doubt, contributors here. Further, you don't talk about the antenna installation, but if it's the attached antenna, inside the car, it's already limited by the amount of sky it can see, while if you're using an external, mag-mount antenna, it's less than likely that your selection of antenna and location on your car was done with a mind toward multipath mitigation. Finally, all those metal boxes around you, especially those things with angles and flat surfaces... cars, trucks, semi's, horse trailers (we are in Texas, after all) can reflect incident GPS energy, and if it's of sufficient signal strength, it's custom made to confuse your receiver.

Multipath is evil.

73, gerry n5jxs

--

Gerry Creager                    gerry@cs.tamu.edu, gerry@page4.cs.tamu.edu  
Network Engineering                    |Research focusing on  
Computer Science Department           |Satellite Geodesy and  
Texas A&M University                   |Geodetic Control  
979.458.4020

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## 706. [aprssig] RE: Packet Cluster locations

From: "Horzepa, Stan" <Stan\_Horzepa@adc.com>  
Date: Wed, 14 Jun 2000 08:07:35 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90891-2000.06.14-08.11.56--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

<http://www.yccc.org/ysa/net/nodesbyqth.htm> lists the dx packet cluster network data for New England and the NYC area.

Stan, WA1LOU

-----Original Message-----

From: Bob Bruninga [mailto:bruninga@nadn.navy.mil]  
Sent: Tuesday, June 13, 2000 5:52 PM  
To: TAPR APRS Special Interest Group  
Subject: [aprssig] Packet Cluster locations

I still am having no luck finding a list of DX packet clusters with their frequencies and Locations. ANY ideas?

Bob

---

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## 707. [aprssig] RE: Packet Cluster locations

From: "Horzepa, Stan" <Stan\_Horzepa@adc.com>  
Date: Wed, 14 Jun 2000 08:10:01 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90892-2000.06.14-08.14.46--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

<http://www.cestro.com/pcluster/dxnodes.html> lists nodes throughout the US.

Stan, WA1LOU

-----Original Message-----

From: Bob Bruninga [mailto:bruninga@nadn.navy.mil]  
Sent: Tuesday, June 13, 2000 5:52 PM  
To: TAPR APRS Special Interest Group  
Subject: [aprssig] Packet Cluster locations

I still am having no luck finding a list of DX packet clusters with their frequencies and Locations. ANY ideas?

Bob

---

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## 708. [aprssig] Dataradios

From: "BobD" <BobD@virtualconst.com>  
Date: Wed, 14 Jun 2000 09:31:28 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90895-2000.06.14-08.35.52--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Take a look at [www.dataradio.com](http://www.dataradio.com) and tell me why we couldn't be using their products on UHF or VHF for higher speed packet.

Don't know prices (I sent an email asking for a price sheet so don't pester them with repeats requests, I'll pass along what I get) yet.

I saw that they have a trade-up program, might be able to make a deal for a number of their 'older' rigs which are 9600b.

73...Bob D., N2IPH

---

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---

## 709. [aprssig] Re: Interesting occurrence

From: K5QQ@aol.com  
Date: Wed, 14 Jun 2000 09:36:27 EDT  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90896-2000.06.14-08.40.03--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In a message dated 6/13/2000 10:31:47 PM Mountain Daylight Time, [k5dtn@swbell.net](mailto:k5dtn@swbell.net) writes:

> I was stopped at a traffice signal when  
> I glanced at the computer screen and saw that  
> the track was suddenly displaced about 200 yards to the  
> southeast. The Garmin display showed the same sudden  
> displacement. This condition was stable - showing no  
> further movement - until the traffic light turned green.  
> I guess I was stopped at the traffic signal for some 30 to  
> 40 seconds. I started moving again and at that time both  
> tracks returned "instantaneously" to their original positions.  
> From that point all the way home - about six miles - everything  
> was completely normal again. I've never seen anything like that  
> before. Anyone else seen such an event?  
>

I am not familiar with the Garmin 48 but on several of my Garmin mapping units I have the option of making the 'Vehicle position' be either the 'Actual' or an 'On the 'Road' position as one of the map display options. If I use the 'Road' option, my GPS gets a bit confused by my house a lot as the roads are very close together and are not very accurately mapped in the GPS unit. As a result the GPS jumps me from road to road trying to figure out what might be the most likely road I am on. This sounds exactly like what you were experiencing.

I looked at my SA7 setup and could not find an equivalent command. However, and this is speculation worthy of a test, it might be the GPS NEMA output string is following where the GPS 'puts' the vehicle and when you have the 'road' option selected the NEMA output string jumps along with the GPS display. Obviously if this is what is happening, the SA7 display should follow in exact sync. An it appears if was in sync per your comments.

Anyhow just a thought of something to look at.

Jim Baremore K5QQ

---

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---

## 710. [aprssig] Re: Dataradios

From: [kbrown@powerhouseproductions.com](mailto:kbrown@powerhouseproductions.com) (Kevin Brown)  
Date: Wed, 14 Jun 2000 09:00:04 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>



Message-ID: <LYR842-90898-2000.06.14-09.02.10--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I understand that many people experience "congestion" of the APRS network, especially in major metro areas. As an alternative, has compression ever been considered? Is it possible? There are several existing compression standards for the wireline data technologies, surely some of those lessons learned could be adapted into packet.

----- Original Message -----

From: "BobD" <BobD@virtualconst.com>  
To: "TAPR APRS Special Interest Group" <aprssi#lists.tapr.org>  
Sent: Wednesday, June 14, 2000 8:31 AM  
Subject: [aprssi] Dataradios

> Take a look at www.dataradio.com and tell me why we couldn't be using  
their  
> products on UHF or VHF for higher speed packet.  
>  
> Don't know prices (I sent an email asking for a price sheet so don't  
pester  
> them with repeats requests, I'll pass along what I get) yet.  
>  
> I saw that they have a trade-up program, might be able to make a deal for  
a  
> number of their 'older' rigs which are 9600b.  
>  
> 73...Bob D., N2IPH  
>  
>  
>  
> ---  
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kbrown@powerhouseproductions.com  
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>  
>

---

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## 711. [aprssi] DXclustr DATA SOUTH

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Wed, 14 Jun 2000 10:10:55 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssi#lists.tapr.org>  
Message-ID: <LYR842-90899-2000.06.14-09.14.43--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Below are the DX clusters in the SOUTH. I need an APRSdos volunteer in each area to help me build a .POS OVERLAY file so we can add them to our APRS databases for use by everyone. Steps are simple:

- 1) Run APRSdos, do a FILE-NEW to erase everything. Radio OFF
- 2) Move cursor to CITY shown and hit INPUT-ADD-OBJ at that LAT/LON
- 3) Enter FREQUENCY for the NAME. For COMMENT, enter BAUD if 9600
- 4) When all done, do a FILE-SAVE and send me the \*.BK FILE

Notice, we dont need CITY, CALL or NOTES. Just FREQ and the resulting LAT/LONG that you get when you do the INPUT-ADD. To avoid duplication, if you are volunteering to do tthis, then tell me.

### SOUTH

#### Alabama DX Nodes/DX Networks:

-----  
Birmingham N4XWC 145.750 (User access)  
Huntsville W4NS [STDX] 145.730 (User access to W4NS)  
Mobile K4VW 144.970 9600 baud  
Tuscaloosa W4AXO [ALADX] 147.570  
Tuscumbia K4NA [TUSDx] 144.930 (Network node)

#### Arkansas DX Nodes/DX Networks:

-----  
Batesville K5EJ 145.690 Link to KB5SQK  
Fayetteville K5HOG 144.950  
Little Rock KB5SQK 144.950 Link to WU3V

#### Florida DX Nodes/DX Networks:

-----

|                                      |                  |                                       |  |
|--------------------------------------|------------------|---------------------------------------|--|
| Apopka                               | N4WW             | 144.950                               |  |
| Boca Raton                           | N4TL [SFDXA]     | 145.590                               |  |
| Bradenton                            | WB4FNH           | 144.610                               |  |
| Clermont                             | WD4IXD           | 145.650                               |  |
| Ft. Lauderdale                       | WA4YLD           | 145.590                               |  |
| Ft. Walton Beach                     | WD4HDT [NWF DG]  | 145.600 (9600)                        |  |
| Melbourne                            | KC4HW            | 144.970                               |  |
| Naples                               | N1DL             | 145.070                               |  |
| Orlando                              | WD4IXD           | 145.650                               |  |
| Georgia DX Nodes/DX Networks:        |                  |                                       |  |
| -----                                |                  |                                       |  |
| Atlanta                              | K4UJ             | 145.070 (W4PME 1200 baud)             |  |
|                                      |                  | 145.030 (SNELLV 1200 baud)            |  |
| Atlanta                              | N4UCK            | 145.650                               |  |
| Lawrenceville                        | NI4X             | 145.710                               |  |
| Macon                                | KE4IHI-7 [MCN07] | 145.070                               |  |
| Louisiana DX Nodes/DX Networks:      |                  |                                       |  |
| -----                                |                  |                                       |  |
| Lafayette                            | WU3V             | 144.970                               |  |
| Lafayette                            | K5BLV            | 144.950 & 145.680                     |  |
| Metairie                             | N5UXT-8          | 145.010                               |  |
| New Orleans                          | KE5GA            | 144.970 & 147.495                     |  |
| Shreveport                           | KF5XV            | 145.050 & 144.930                     |  |
| Mississippi DX Nodes/DX Networks:    |                  |                                       |  |
| -----                                |                  |                                       |  |
| McHenry                              | K5JZ             | 144.950 # (Gulf Coast)                |  |
| Hattiesburg                          | W5FI             | 144.950 #*                            |  |
| Hernando                             | MEMDX1           | 144.950 Link to KN4F                  |  |
| Laurel                               | KB5IXI-1         | 144.950 Digipeater to W5FI            |  |
| Tennessee DX Nodes/DX Networks:      |                  |                                       |  |
| -----                                |                  |                                       |  |
| Athens                               | W4RJC-1 [ATHDX]  | 144.910                               |  |
| Bartlett                             | K4VVM-3          | 145.670 (C KB4KA V K4VVM-3,989002)    |  |
| Chattanooga                          | K4JW             | 144.990                               |  |
| Collierville                         | KB4KA            | 144.970                               |  |
| Concord                              | K4IUW            | 441.000                               |  |
| Jackson                              | KC4EUN-6         | 145.750 (C KB4KA V KC4EUN-6,989002)   |  |
| Kingsport                            | KA4IWG           | 145.750                               |  |
| Knoxville                            | AG4M-3 [ETDXA]   | 147.585                               |  |
| Nashville                            | K4CN             | 144.970, 145.585, 145.750             |  |
| Memphis                              | KN4F             | 144.950                               |  |
| Mt Juliet                            | AA4DO            | 147.495                               |  |
| Oak Ridge                            | NS4W             | 144.910, 147.585                      |  |
| Paris                                | WT4DX-6          | 145.750 (C KB4KA V WT4DX-6,989002)    |  |
| Somerville                           | KB4KA-3          | 145.070 (C KB4KA V KB4KA-3,989002)    |  |
| North Carolina DX Nodes/DX Networks: |                  |                                       |  |
| -----                                |                  |                                       |  |
| Asheville                            | N4AA             | 144.950                               |  |
| Boone                                | K4PC DXBNE       | 144.990 (link to K4PC)                |  |
| Charlotte                            | K4MD             | 144.910 & 441.075                     |  |
| Elizabeth City                       | WA4VTX           | 144.970                               |  |
| Hendersonville                       | W4SMG            | 145.650 (Connect HVLDX, linked to     |  |
| Newport                              | K4DHZ            | 144.930                               |  |
| Raleigh                              | W4DW             | 147.570                               |  |
| Stanley                              | N4ZC             | 144.930 & 441.000                     |  |
| Wilmington                           | N4WI             | 144.950                               |  |
| Wingate                              | K4MD-5 DXWIN     | 144.910 (link to K4MD)                |  |
| Young Mt                             | K0SD-5 DXYNG     | 144.930 (Link to N4ZC - DXYNG Users)  |  |
| South Carolina DX Nodes/DX Networks: |                  |                                       |  |
| -----                                |                  |                                       |  |
| Aiken                                | KN4UE DXA        | 147.550                               |  |
| Agusta, GA                           | W4LWT-1 AGS      | 147.550 (User Access - KN4UE)         |  |
| Charleston                           | K04BR            | 145.610                               |  |
| Columbia                             | K4AVU            | 144.970                               |  |
| Florence                             | N4JJ             | 147.585                               |  |
| Greenville                           | AC4RJ            | 145.650                               |  |
| Orangeburg                           | K04BR-15         | 145.610 (1200 Baud User Access K04BR) |  |
| Sasafrass Mtn                        | W4FX-1           | 145.650 (1200 Baud User Access AC4RJ) |  |

END OF SOUTH

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## 712. [aprssi] DXclustrs WEST

From: Bob Bruninga <bruninga@nadn.navy.mil>  
 Date: Wed, 14 Jun 2000 10:13:21 -0400 (EDT)  
 To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
 Message-ID: <LYR842-90900-2000.06.14-09.17.13--lyris.aprssi#tapr.org@lists.tapr.org>  
 Rendered body type: text/plain

Below are the DX clusters in the WEST I need an APRSdos volunteer in each area to help me build a .POS OVERLAY file so we can add them to our APRS databases for use by everyone. Steps are simple:  
 1) Run APRSdos, do a FILE-NEW to erase everything. Radio OFF  
 2) Move cursor to CITY shown and hit INPUT-ADD-OBJ at that LAT/LON  
 3) Enter FREQUENCY for the NAME and for COMMENT, enter BAUD if 9600  
 4) When all done, do a FILE-SAVE and send me the \*.BK FILE

Notice, we dont need CITY, CALL or NOTES. Just FREQ and the resulting LAT/LONG that you get when you do the INPUT-ADD. To avoid duplication, if you are volunteering to do tthis, then tell me.

WEST \*\*\*\*\*

Arizona DX Nodes/DX Networks: 12/95

```
-----
Carefree      K5VT      145.030
Chandler      K7N0      CADXA    145.090
Heber         K7ANT     EADXC    145.130
Phoenix (NW)  N7CIX     CADXA    144.930
Prescott      AA7MH     144.930
Tucson        KG7IZ     145.770 (QR0 DX Club SysOp WB7B)
```

Hawaii DX Nodes/DX Networks:

```
-----
Kauai         NH6AF     144.970
Oahu          AH6IO     144.930
Oahu (windward) NH6UY     144.910
Maui          AH6LE     144.950
Big Island, Kona NH6M      144.910
```

Northern California - Nevada DXPSN: 12/96

```
-----
California City K6ZZ      145.770 (Antelope Valley area)
Castro Valley  W6RGG     [DXCV]   145.770 (East, West, South SF Bay area)
Chico          K6EL      [DXC]    145.670 (Chico)
               K6EL      [DX]     144.950 (South Fork Mtn - Redding area)
Hanford        K6UR      [DXFRES] 144.950 (Bear Mtn, Fresno area)
               K6UR      [DX7]    146.580 (Hanford area)
               K6UR      [DX16]   145.770 (Oakhurst)
Livermore      NF6S      [DXL]    145.770 (Livermore, Pleasanton)
Los Gatos      N6ST      [DXLG]   146.580 (Santa Cruz Mtns, Monterey Bay)
               N6ST      [DXF]    146.580 (Santa Cruz/Los Gatos)
Mountain View  K6LLK     [DXMV]   144.950 (Network Node and Hub)
Oakdale        K6OQ      146.580 (Modesto area)
Penngrove      K6ANP     [DXANP]  146.580 (Sonoma County)
               K6ANP     [DX4]    146.580 (Sugarloaf Mt.- Napa Valley)
Rio Linda      W6GO      [DXRL]   144.950 (Sacramento, Woodland, Davis)
Bermuda Dunes  W6EEN     145.690 (Palm Springs)
Cucamonga      W6KK      145.660 (Inland Empire West)
               W6KK      144.490
West Hills     K6EX0     145.670 (San Fernando Valley)
               K6EX0     144.490
Fullerton      AD6DO     145.680 (Orange County)
Hemet          N7OD      144.950 (Hemet/San Jacinto Valley)
Oxnard         N6VR      144.910 (Ventura/So Santa Barbara City)
Ramona         KD6HRO    145.050 (Limited Cluster)
West Los Angeles K6EX01    145.690 (West LA and South Bay)
San Diego      W6ZZ      144.950 (San Marcos)
San Diego      KM6K      144.950 (Kearney Mesa)
San Diego      K6KT      145.690 (Fallbrook)
San Diego      N6ND      144.360 (Point Loma)
Santa Ana      N6HVZ     145.605 (West Orange County)
Santa Maria    N6MB      144.950 (N Santa Barbara/S SLO County)
Whittier       WB6UCD    144.490 (East Los Angeles County)
               WB6UCD    144.950
Wildomar       WB6JAR     145.670 (Southwest Riverside County)
```

Nevada DX Nodes/DX Networks:

```
-----
Reno           N7TR      [RENODX] 144.950
               N7TR      [PCDX1]  146.580 (Low Level in Reno)
               N7TR      [PCDX]   144.950 (Virginia City, NV)
               N7TR      51.700
```

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## 713. [aprssig] DXclustr Data NORTHWEST

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Wed, 14 Jun 2000 10:14:49 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90901-2000.06.14-09.18.40--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Below are the DX clusters in the NORTHWEST. I need an APRSdos volunteer in each area to help me build a .POS OVERLAY file so we can add them to our APRS databases for use by everyone. Steps are simple:

- 1) Run APRSdos, do a FILE-NEW to erase everything. Radio OFF
- 2) Move cursor to CITY shown and hit INPUT-ADD-OBJ at that LAT/LON
- 3) Enter FREQUENCY for the NAME and for COMMENT, enter BAUD if 9600
- 4) When all done, do a FILE-SAVE and send me the \*.BK FILE

Notice, we dont need CITY, CALL or NOTES. Just FREQ and the resulting LAT/LONG that you get when you do the INPUT-ADD. To avoid duplication, if you are volunteering to do tthis, then tell me.

NORTHWEST \*\*\*\*\*  
Anchorage NL7C 145.030 440.050 Backbone (Anchorage & Mat-Su Valley)  
Idaho DX Nodes/DX Networks:  
-----  
Orfino KE7RT 145.070  
  
Oregon DX Nodes/DX Networks:  
-----  
Veneta K07N 145.69 (Eugene area)  
N. Portland N0JO 145.71  
E. Portland WR7D 145.69  
Salem N7AVK 145.67 (Mid-Willamette Valley)  
West Portland WR7D-4 145.73 (Buckmaster database server)  
Washington DX Nodes/DX Networks:  
-----  
Bellevue N6MZ 145.790 (Seattle area, N & E suburbs)  
Kent W7PKT 145.730  
Lake Stevens N7XR 145.750  
Lakewood W7NTF-1 145.710  
Poulsbo KC7Z 145.770  
Spokane NQ7M 144.950 (EWARG / Primary ARES Node)  
Spokane K7TJ 144.930 (EWARG / Link to VE7CQD via internet)  
  
Wyoming DX Nodes/DX Networks:  
-----  
Jackson N7NG 145.010  
Montana DX Nodes/DX Networks:  
-----  
Bozeman KE7X [BZNDX] 145.010  
Great Falls KQ7K [GTFDX] 145.090

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## 714. [aprssig] DXclustr Data MIDWEST

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Wed, 14 Jun 2000 10:16:20 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90902-2000.06.14-09.20.10--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Below are the DX clusters in your area. I need an APRSdos volunteer in each area to help me build a .POS OVERLAY file so we can add them to our APRS databases for use by everyone. Steps are simple:

- 1) Run APRSdos, do a FILE-NEW to erase everything. Radio OFF
- 2) Move cursor to CITY shown and hit INPUT-ADD-OBJ at that LAT/LON
- 3) Enter FREQUENCY for the NAME and for COMMENT, enter BAUD if 9600
- 4) When all done, do a FILE-SAVE and send me the \*.BK FILE

Notice, we dont need CITY, CALL or NOTES. Just FREQ and the resulting LAT/LONG that you get when you do the INPUT-ADD. To avoid duplication, if you are volunteering to do tthis, then tell me.

MIDWEST\*\*\*\*\*

Iowa DX Nodes/DX Networks:

```
-----
Algona      WD8PKF  144.910
Bettendorf  K0XG    147.510
Ely         WB8ZRL  147.510
Mitchelville N0NI    144.910
```

Illinois DX Nodes/DX Networks:

```
-----
Champaign      K9USA
Champaign      K9CW
Chicago        KE9I    145.510 (User)
Crete (Far S Chicago) K9AJ    145.510
               K9AJ    144.910*
DeKalb         W9NIU    144.910
Godfrey        K9SD    144.910
Lockport (SW Chicago) N9AOL    223.420
McHenry (Far NW Chicago) K59W    145.730 (9600 baud)
Mt Carroll     KB9GMN    145.530
Quincy         W9AWE    144.910
Rockford       N9EN    147.435
Rolling Meadows N9EW**   145.750
```

Indiana DX Nodes/DX Networks: 12/95

```
-----
Fort Wayne     KR9U    144.910 (User)
Crown Point    N9QX    147.435 (User)
Indianapolis   KJ9D    145.530 (User)
Indianapolis   WY9T    144.970 (User)
Kokomo         KJ9D-5   145.550 (User)
Letts         W9YSX-1  145.390 (Link to WY9T-1 & WN9X-1)
Madison        WN9X-1   145.390 (Link to W9YSX-1 & N4XSQ )
Muncie         W9SN    145.690 (User)
Plainfield     KJ9D-2   145.670 (User)
West Lafayette K9FN    144.910 (User)
```

Ohio DX Nodes/DX Networks:

```
-----
Akron          W0CG    145.590
Athens         KC8BHI-7 145.730 (N8HTT Network)
Cleveland      K8AZ    144.930
Cincinnati     WA8LOW    145.740
Columbus       N8HTT    145.090
Columbus       K8MK    144.950
Dayton         N8BJQ    145.030
Findlay        N8ET    147.540
               N8ET    146.400 (via W8FT Node Stack)
Ironton        KA4ROS-2 145.630 (N8HTT Network)
Mentor         W8GN    144.970
Parma          K8MR    145.590
Westerville    K8MK    144.950 & 145.590
               K8MK    446.975
Youngstown     K8TME    144.970
```

Kentucky DX Nodes/DX Networks:

```
-----
Ashland        KA4ROS-2 145.630 (N8HTT Network)
Bowling Green  K4UU    144.930
Flatwoods      K4IT-5   145.630 (N8HTT Network)
Georgetown     N4TY    144.910
Louisville     N0KFO    145.590
Paducah        ND4X    147.495 (Links to KB4HU Nashville TN)
Taulor Mill    N4XSQ    145.770
```

&&

MA

Michigan DX Nodes/DX Networks:

```
-----
Adrian         K8AQM    144.970
Clarkston      W8WD    144.910
Flint          N8JV    145.710
Jackson        N8TO    147.540 (Telnet n8to.modempool.com)
Laingsburg     W8EB    147.430
Nashville      N8CC    144.970
Port Huron     K8DD    144.970
Troy           K8NA    145.950
Ypsilanti      K8CC    144.910
Zeeland        K8DAA    147.560
```

Minnesota DX Nodes/DX Networks:

-----

|             |       |         |                            |
|-------------|-------|---------|----------------------------|
| Bemidji     | W0GJ  | [PCBJI] | 144.910, 145.010           |
| Duluth      | W0TVD | [PCDLH] | 144.910, 145.070           |
| Forest Lake | K0RC  | [PCSTP] | 144.930                    |
| Plymouth    | N0AT  | [PCPLY] | 144.970                    |
| Rochester   | W0MXW | [PCRST] | 144.970                    |
| St Cloud    | K0IR  | [PCSTC] | 144.910                    |
| St Paul     | NJ0M  | [PCMSP] | 144.950                    |
| Winona      | K0RAK |         | 144.910 (and La Crosse WI) |

Missouri DX Nodes/DX Networks:

-----  
 Godfrey IL K9SD Freq unknown (Covers St Louis area)

Wisconsin DX Nodes/DX Networks:

|                  |        |         |                               |
|------------------|--------|---------|-------------------------------|
| Appleton         | N9BMS  | 145.750 |                               |
| Eau Claire       | N9ISN  | 145.510 | (1200 baud)                   |
| Hayward          | WIHYR  | 144.910 | (TheNet/users link to W0TVD)  |
| La Crosse        | K0RAK  | 144.910 | (1200 baud)                   |
| Madison          | N9MW   | 223.440 | (User)                        |
| McFarland        | WI9L   | 223.440 |                               |
| Milwaukee        | W9DD   | 145.510 | (User)                        |
| Neenah           | KB9AIT | 223.480 |                               |
| North Freedom    | W9RNF  | 223.480 |                               |
| Oconomowoc       | KJ9I   | 223.460 | (User)                        |
| Paris            | KS9U   | 223.480 | (User)                        |
| Prairie du Chien | PDCDX  | 144.910 | (X1J/users link to K0RAK)     |
| Racine           | W9JA   | 223.480 | (User)                        |
| Sheboygan        | WE9R   | 223.420 | (User)                        |
| Stevens Point    | WB9QFW | 145.510 | (1200 baud)                   |
| Tomah            | #ISN3  | 144.910 | (X1J/users link to K0RAK)     |
| Tomah            | #WIN2  | 223.480 | (X1J/users link to W9RNF)     |
| Wausau           | WAUSDx | 145.510 | (TheNet/users link to WB9QFW) |

---

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## 715. [aprssig] Re: Dataradios

From: Byron Smith <wa6ylb@theworks.com>  
 Date: Wed, 14 Jun 2000 07:16:36 -0700  
 To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
 Cc: aprssig@tapr.org  
 Message-ID: <LYR842-90903-2000.06.14-09.20.51--lyris.aprssig#tapr.org@lists.tapr.org>  
 Rendered body type: text/plain

Because its very expensive. We use their product at work, and a simple TNC [its a z80 with a 4800 baud modem] "MRM" at 4800 baud cost almost 1100 dollars. We would get better performance buying KPC9612+ units for 1/3 the cost.

Most of their items are meant for a point to point, with no peer to peer operation at all.

At 09:31 AM 06/14/2000 -0400, you wrote:  
 >Take a look at www.dataradio.com and tell me why we couldn't be using their  
 >products on UHF or VHF for higher speed packet.

Byron Smith  
 wa6ylb@theworks.com  
 wa6ylb@wa6ylb.#nca.ca.usa.noam  
 ICQ 26114994

http://www.theworks.com/~wa6ylb

"Luge strategy? Lie flat and try not to die."

---

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## 716. [aprssig] DXclustr Data CENTRAL

From: Bob Bruninga <bruninga@nadn.navy.mil>  
 Date: Wed, 14 Jun 2000 10:17:38 -0400 (EDT)  
 To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
 Message-ID: <LYR842-90904-2000.06.14-09.21.29--lyris.aprssig#tapr.org@lists.tapr.org>  
 Rendered body type: text/plain

Below are the DX clusters in CENTRAL USA. I need an APRSdos volunteer in each area to help me build a .POS OVERLAY file so we can add them to our APRS databases for use by everyone. Steps are simple:

- 1) Run APRSdos, do a FILE-NEW to erase everything. Radio OFF
- 2) Move cursor to CITY shown and hit INPUT-ADD-OBJ at that LAT/LON
- 3) Enter FREQUENCY for the NAME and for COMMENT, enter BAUD if 9600
- 4) When all done, do a FILE-SAVE and send me the \*.BK FILE

Notice, we dont need CITY, CALL or NOTES. Just FREQ and the resulting LAT/LONG that you get when you do the INPUT-ADD. To avoid duplication, if you are volunteering to do tthis, then tell me.

CENTRAL \*\*\*\*\*

Colorado DX Nodes/DX Networks:

```
-----
Colorado Springs  N0ST      144.910
Englewood         W0CP      144.970
Loveland          W0KKT     144.910
Parker            W0YG      144.950
```

Kansas DX Nodes/DX Networks:

```
-----
Olathe            W0MVV     144.950 (Kansas City, KS & MO and suburbs)
```

Nebraska DX Nodes/DX Networks:

```
-----
Hoskins           WB0YWO     147.510 (Norfolk area)
Lincoln           K0GND      147.510
Omaha             KN0L       144.910
```

New Mexico DX Nodes/DX Networks:

```
-----
Albuquerque       W5UR       ABQDX     145.030
Corrales          KN5D       Unknown
Santa Fe          W7LHO      Unknown
```

Oklahoma DX Nodes/DX Networks:

```
-----
Lawton            K5OH       ????.??? (Connects to N50K 144.910)
Union City        N50K       144.910 (Southwest of Oklahoma City)
```

Utah DX Nodes/DX Networks:

```
-----
Clearfield        NC7J       144.950 (1200 baud)
```

South Dakota DX Nodes/DX Networks:

```
-----
Sioux Falls       W0ZWY      145.070 145.010
```

Texas DX Nodes/DX Networks:

```
-----
Abilene           N5HRG      144.910
Amarillo          WA4NXI     145.050
Austin            KG5ND      144.950 (AUSDXC)
Austin            K5NA       145.770 (CTDXCC)
Cibolo            WB5DDP     145.010
Edinburg          K5TSQ      144.910
Haslet            K9MK       144.910 (Far North Ft. Worth)
Houston           K5LV       144.950 TDXS95
Kingsville        KA5SWC     145.070
La Marque         K5DXC      144.930
Lubbock           KA5EJX     145.010
Magnolia          K5LV       144.950
Midland           WF5E       144.910 (MAFDXC)
Rowlett           K5RT       144.930
San Antonio       KA5IAU     144.970
Tyler             KD5GD      144.990
Weatherford       WC5P       144.950
```

---

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## 717. [aprssig] DXclustr Data WORLD

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Wed, 14 Jun 2000 10:19:16 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90905-2000.06.14-09.23.07--lyris.aprssig@lists.tapr.org>  
Rendered body type: text/plain

Below are the DX clusters in the WORLD. I need an APRSdos volunteer in each area to help me build a .POS OVERLAY file so we can add them to our APRS databases for use by everyone. Steps are simple:

- 1) Run APRSdos, do a FILE-NEW to erase everything. Radio OFF

- 2) Move cursor to CITY shown and hit INPUT-ADD-OBJ at that LAT/LON
- 3) Enter FREQUENCY for the NAME and for COMMENT, enter BAUD if 9600
- 4) When all done, do a FILE-SAVE and send me the \*.BK FILE

Notice, we dont need CITY, CALL or NOTES. Just FREQ and the resulting LAT/LONG that you get when you do the INPUT-ADD. To avoid duplication, if you are volunteering to do tthis, then tell me.

WORLD\*\*\*\*\*

Puerto Rico DX Nodes/DX Networks:

-----  
San Juan WP4K 144.930

Guam  
Island KH2D-2 144.910 1200 buad

Canada DX Nodes/DX Networks:

-----  
Fredricton, NB VE1NH 145.010  
Halifax, NS VE1DXC 145.010  
Montreal, PQ VE2PWI 144.950 (WIARC DX PacketCluster)  
Middleport, ON VE3CDX 145.710  
Orillia, ON VE3FJB 145.070  
Ottawa, ON VE3XDX 145.110  
Port De Montreal VE2DX 144.930 & 145.590 & 145.710  
Toronto, ON VE3TDX 144.970  
Toronto, ON VE3ZRB 145.770  
Prince Albert, SK VE5BT 145.010 & 147.330  
Edmonton, AB VE6DXD 144.990  
Vancouver, BC VE7CQD 145.710 (ROSE Network; Internet via VE7SFU)

DX Nodes In Africa:

-----  
Kinshasa 9Q5X0 145.775  
Pretoria ZS6WGH [DXPTA] 10.149 MHz LSB  
Pretoria ZS6WGH [DXPTA] 21.109 MHz LSB  
Pretoria ZS6WGH [DXPTA] 50.875 MHz  
Pretoria ZS6WGH [DXPTA] 144.475 MHz (VHF Backbone)  
Pretoria ZS6WGH [DXPTA] 144.625 MHz (Johannesburg LAN)  
Pretoria ZS6WGH [DXPTA] 144.675 MHz (Pretoria LAN)  
Pretoria ZS6WGH [DXPTA] 430.600 MHz (UHF Backbone)  
Pretoria ZS6WGH [DXPTA] 438.025 MHz (ROSE Backbone)

DX Nodes In Europe:

-----  
Campobasso I8NHJ-6 144.725  
Mainz DB0SPC-8 430.650 (9600 baud Sysop DJ6RX)  
Oerebro SK4BX-6 144.825  
Paris F6BEE 145.300 (1200 baud 45km SW of city)  
F6EPY 145.300 (25km south of city)  
\* Both linked to EU megacluster thru LX and DL  
Pomezia Rome IO0WK-6 144.550  
Rostov-on-Don RK6LWX 144.625 (1200 baud CLX Node)  
Seregno (Mi) I2ELJ-6 144.625  
Skovde SK6EI-2 144.625  
SK6EI-7 443.650  
SL6AL-1 145.350  
Stockholm SK0AR-6 144.575  
Tielt ON1CED-5 144.650  
Voorburg PI8DXC 430.950

DX Nodes In Asia:

-----  
Seoul HL90B Freq unknown  
JAPAN DX Cluster Nodes: Call Area 0-1-2

-----  
Abiko/Chiba JR2BNF/1 431.16MHz  
Amagi/Shizuoka JG2ZCG 431.24/52.66MHz  
Fujisawa/Kanagawa JA1SYY 431.26MHz  
Hamamatsu/Shizuoka JF2Z0J 1298.88MHz  
Hanno/Saitama JR1MAF 431.38/(HF)  
Higashimatsuyama/Saitama JA1NWD 438.38MHz  
Kamakura/Kanagawa JA1BRK (HF)10.144MHz  
Kamakura/Kanagawa JA1UQP 431.40MHz  
Kawaguchi/Saitama JH1ROJ 431.44MHz  
Kita-ku/Tokyo JE2ERH/1 431.36MHz  
Koganei/Tokyo JH1GTV 431.08  
Komoro/Nagano JR0YEO 438.68MHz  
Nagano/Nagano JA0TBJ 431.36MHz  
Nagaoka/Shizuoka JH2TIP 431.38MHz  
Odawara/Kanagawa JK1GOK 431.14MHz  
Omiya/Saitama JK1FVP 438.44MHz



|                  |        |           |
|------------------|--------|-----------|
| Oosato/Saitama   | JH1XYR | 431.22MHz |
| Oyama/Tochigi    | JA1PEJ | 431.26    |
| Setagaya/Tokyo   | JA1SQD | 438.42    |
| Shimada/Shizuoka | JE2UFF | 144.62    |
| Shirone/Niigata  | JA0YRH | 438.68MHz |
| Takasaki/Gunma   | JE1CAY | 431.14MHz |
| Kanagawa         | JE1GMM | 431.22MHz |
| Yokohama         | JR1MLU | 431.30MHz |
| Kyoto            | JA3ZDX | 1293.240  |
| Osaka            | JJ3ZKD | 1293.260  |
| Toyanaka         | JJ3ZKD | 1293.260  |
| Akita            | JA7XRO | 431.020   |
| Iwate            | JA7RHJ | 431.260   |
| Mt Kurikoma      | JR7ZEG | 438.940   |
| Miyagi           | JA7MYQ | 438.980   |
| Morioka          | JA7RHJ | 432.260   |
| Sendai           | JA7MYQ | 432.260   |
| Tagajyo          | JH7EZB | 431.260   |
| Yamagata         | JH7QXJ | 432.220   |
| Yokote           | JA7XRO | 431.020   |

#### New Zealand DX Nodes/DX Networks

|               |           |         |
|---------------|-----------|---------|
| Auckland      | ZL1BN     | ???     |
| Manawatu      | ZL2NX     | 145.725 |
| Taranaki      | ZL2AQY-10 | ???     |
| Upper Hutt    | ZL2NX     | 438.600 |
| Upper Hutt    | ZL2NX*    | 145.425 |
| Waikato       | ZL1HY-10  | ???     |
| Waikuku Beach | ZL3DXC    | ???     |
| Wellington    | ZL2NX     | 146.625 |

(New Canterbury)

#### South America DX Nodes/DX Networks

|        |         |                    |
|--------|---------|--------------------|
| Brazil | PY2XB-6 | 145.090 (1200 bps) |
|--------|---------|--------------------|

#### United Kingdom (England) DX Nodes/DX Networks

|        |                      |         |                                   |
|--------|----------------------|---------|-----------------------------------|
| GB7ADX | Wales, Isle of Man   | 144.900 | (GB7ADX DX-Cluster Support Group) |
| GB7CDX | Red Lodge, Suffolk   | 144.900 |                                   |
| GB7DXC | Gloucester           | 144.900 | (1200 bps)                        |
| GB7DXH | Harrow               | 144.900 |                                   |
| GB7DXI | Wokingham            | 28.103  | (KA-Node/gateway to SK3BG-6)      |
| GB7DXM | Martlesham           | 432.650 | (Ipswich area)                    |
| GB7MBC | Morecambe Bay, Lancs | 144.900 |                                   |
| GB7NDX | Brechin NE Scotland  | 144.900 |                                   |
| GB7TLH | Dereham, Norfolk)    | 144.900 |                                   |
| GB7WDX | Worle                | 144.900 | (Western DX Cluster Group)        |
| GB7YDX | Howden SE of York    | 144.900 | (Yorkshire Cluster Group)         |

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## 718. [aprssig] DX Cluster Info: UK

From: Ian Wade <[Ian.Wade@care4free.net](mailto:Ian.Wade@care4free.net)>  
 Date: Wed, 14 Jun 2000 16:24:12 +0100  
 To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
 Message-ID: <[LYR842-90915-2000.06.14-10.28.56--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-90915-2000.06.14-10.28.56--lyris.aprssig#tapr.org@lists.tapr.org)>  
 Rendered body type: text/plain

Bob, here is the UK DX Cluster information, courtesy UI-View:

```

* DX Clusters
GB7ADX!5316.30N/00428.60W%DX Cluster - Sysop GW4VEQ
GB7ADX>144.900, 70.325, 432.675, 50.650
GB7BAA!5213.25N/00211.05W%DX Cluster - Sysop G8TIC
GB7BAA>144.900, 432.650, 70.3375
GB7BDX!5531.41N/00222.81W%DX Cluster - Sysop GM6YRZ
GB7BDX>144.900, 433.675, 70.325
GB7CDX!5221.59N/00027.39E%DX Cluster - Sysop G4BWP
GB7CDX>70.325, 144.900
GB7DJK!5241.27N/00052.21E%DX Cluster - Sysop G1TLH
GB7DJK>50.650, 144.900, 432.675, 70.325
GB7DXA!5139.49N/00035.50W%DX Cluster - Sysop G0RDI
GB7DXA>144.975, 144.8875, 70.325, 50.530, 432.675
GB7DXB!5241.86N/00147.98W%DX Cluster - Sysop G3VHB
GB7DXB>144.8875, 70.325, 433.675
GB7DXC!5152.21N/00212.74W%DX Cluster - Sysop G0TYA
GB7DXC>144.900, 70.325

```

```

GB7DXD!5048.13N/00157.08W%DX Cluster - Sysop G00FE
GB7DXD>144.900, 433.650, 70.3250
GB7DXH!5134.09N/00019.66W%DX Cluster - Sysop G0UHK
GB7DXH>144.900, 144.8625, 50.530, 433.675, 70.325
GB7DXI!5124.17N/00052.34W%DX Cluster - Sysop G4LJF
GB7DXI>70.325, 432.675, 144.900
GB7DXK!5052.86N/00033.50E%DX Cluster - Sysop M0BMD
GB7DXK>144.900, 50.650, 70.3125, 432.675
GB7DXL!5347.26N/00135.66W%DX Cluster - Sysop G6YIN
GB7DXL>144.8875, 433.675, 70.325
GB7DXM!5203.62N/00116.57E%DX Cluster - Sysop G4PIQ
GB7DXM>70.325, 432.650
GB7DXS!5059.75N/00010.66W%DX Cluster - Sysop G3VKW
GB7DXS>144.900, 433.675, 70.325
GB7DXW!5055.69N/00129.38W%DX Cluster - Sysop G3PSM
GB7DXW>144.900, 70.325, 50.610, 433.675
GB7DXX!5330.08N/00215.70W%DX Cluster - Sysop G3RTU
GB7DXX>144.900
GB7GDX!5152.21N/00212.74W%DX Cluster - Sysop G0TYA
GB7GDX>144.900, 70.325
GB7MBC!5404.42N/00250.06W%DX Cluster - Sysop G0VGS
GB7MBC>144.900, 70.325
GB7MDX!5254.45N/00242.11W%DX Cluster - Sysop G4UJS
GB7MDX>144.900, 432.675, 70.325
GB7ODX!5904.16N/00310.67W%DX Cluster - Sysop GM4PSX
GB7ODX>144.900, 432.650, 70.4875, 50.630, 29.250, 29.230, 28.130, 28.140, 21.080, 14.093, 3.605
GB7PDX!5049.98N/00349.71W%DX Cluster - Sysop G3ORH
GB7PDX>432.625, 433.650
GB7SDX!5547.98N/00418.79W%DX Cluster - Sysop GM00PS
GB7SDX>144.900, 70.3375, 432.675
GB7TLH!5241.27N/00052.21E%DX Cluster - Sysop G1TLH
GB7TLH>50.650, 144.900, 432.675, 70.325
GB7WDX!5122.63N/00256.87W%DX Cluster - Sysop G70PJ
GB7WDX>144.900, 50.750, 433.675, 70.3125
GB7YDX!5345.07N/00049.36W%DX Cluster - Sysop G4DBN
GB7YDX>50.690, 144.900, 433.675, 70.325

```

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

\*\*\*\*\* Third draft now available \*\*\*\*\*

--

```

+-----+
| APRS on 144.800 [I0915X] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+

```

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## 719. [aprssig] Interesting Occurrence - Wrapup

From: Claude Head <k5dtn@swbell.net>  
 Date: Wed, 14 Jun 2000 11:24:10 -0500  
 To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
 Message-ID: <LYR842-90926-2000.06.14-11.30.36--lyris.aprssig#tapr.org@lists.tapr.org>  
 Rendered body type: text/plain

Thanks to all who commented on this "interesting occurrence".

Gerry, N5JXS - Multipath is evil - Multipath is evil! I agree :-)  
 I'm inclined to think this anomaly was caused by a specular reflection from one or more of the nearby buildings. I think "specular" because the position offset was sudden, and then stable. The stability surprises me since the satellites are moving pretty fast, but I guess the angular velocity of a satellite can be pretty small under some conditions. Gerry, the antenna is a Trimble obtained from Paccomm, and is mounted at the center of the dashboard as close to the windshield as I could get it.

Except for the direction toward the back of the car, it has a pretty good view of the sky. Car is a '94 Chevy Caprice.

Jim, K5QQ, suggests that the shift might have been caused by a Garmin "vehicle position" setting of "on the road" vs "actual". So far as

I know, neither the GPS45 or Street Atlas v7.0 has such a setting - I have certainly not made any such selection.

Byron, WA6YLB, suggests that the offset might be caused by RFI from the traffic signals themselves. Byron, I did not look at the screens until after I had stopped at the light. I have seen interference from power lines suppress the GPS signals completely, to the point where the system lost lock, but I've not seen RFI cause a sudden, stable offset before. I think this is unlikely.

In summary, I think Gerry identified the problem correctly. I was just surprised that I had not seen it before like this. Multipath errors must

be pretty common in the cities. Maybe they have been there all along, and I just didn't notice them - or maybe they stand out better now that SA has been turned off.

Once again, thanks for the responses and the suggestions.

73, Claude  
K5DTN

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## 720. [aprssig] Re: Interesting occurrence

From: William D Ricker <[wdr@world.std.com](mailto:wdr@world.std.com)>  
Date: Wed, 14 Jun 2000 12:36:15 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: [aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)  
Message-ID: <LYR842-90929-2000.06.14-11.41.46--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> the track was suddenly displaced about 200 yards to the...  
> than I observed - but I was not running any form of APRS...  
> large - 15 to 20 story - mirrored buildings ranging from  
> about 100 yards to 300 yards away in the vicinity. I guess  
> that this might be a reflection from one of the buildings which  
> caused the sudden shift in position. Does that sound  
> possible?

I saw 6-mile displacements recently in a GPS-only situation; since my GPS was in the windshield under the very active windshield wipers when I got that (twice), I'm wondering if GPS uses phasing/doppler information as timing? I was stopped or moving very slowly, in an area with plenty of wet leafy attenuator -- but the variable under my control that seemed to be most closely connected with occurrence was speed of the (metal-framed) wiper.

--

Bill Ricker N1VUX [wdr@world.std.com](mailto:wdr@world.std.com) "The freedom of the press belongs  
<http://world.std.com/~wdr/> to those who own one."--A.J.Liebling

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## 721. [aprssig] Re: Dataradios

From: Robert Donnell <[kd7nm@pugetsound.net](mailto:kd7nm@pugetsound.net)>  
Date: Wed, 14 Jun 2000 10:27:07 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-90937-2000.06.14-12.30.34--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 09:00 AM 6/14/00 -0500, Kevin Brown wrote:  
>I understand that many people experience "congestion" of the APRS network,

>especially in major metro areas. As an alternative, has compression ever  
>been considered? Is it possible? There are several existing compression  
>standards for the wireline data technologies, surely some of those lessons  
>learned could be adapted into packet.  
>

For services such as packet BBS email forwarding, which have blocks of data large enough to gain benefit from conventional compression techniques, that capability has been implemented for nearly 10 years. They benefit because each connection is a long stream of data - which is what conventional compression routines are designed to compress.

APRS doesn't lend itself well to conventional compression techniques, because no one station sends enough data in a single transmission to gain much benefit. Instead, the Mic-E position report defines a bit-wise technique for getting a lot of information in a very small number of bits by using virtually every bit available, including those in the destination callsign field, to pack the position report and some status information into a very small packet. Bob Bruninga has the exact specs, but I think the packet size over a typical NMEA data frame is about 1/4 as many bits transmitted.

One of the ideas that has been discussed is to convert all uncompressed position reports into the compressed format at the first digipeater that detects an uncompressed report and relays that report. As I understand it, the biggest disadvantage to this at the moment is that an 8-bit-clean data path is required to pass the data accurately, and the 'telnet' connection used on the internet gateways (IGATES) either isn't 8-bit-clean, or isn't guaranteed to be so. Also, all the user TNCs and programs will have to be reliably configured for 8-bit data transfers when user APRS software is started.

I hope that helps everyone to understand the issues and problems, at least to the degree I do.

73, Bob

-----  
Bob Donnell, KD7NM kd7nm@pugetsound.net  
Western Washington Amateur IP Address Coordinator (425) 775-3651  
----- http://wetnet.wa.com/~kd7nm -----

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## 722. [aprssig] DX clusters EAST finished

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Wed, 14 Jun 2000 13:38:38 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90941-2000.06.14-12.42.29--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Here is the 2 K file of all DX clusters in the EAST. (Mid Atlantic) It can be overlayed onto APRSdos and Mac/WinAPRS and any other program that overlays \*.POS files. This is what we need for the other 5 areas I posted earlier. Took me about 30 minutes to generate from the data for the east and an Atlas. Its kinda interesting, since DX clusters and APRS digis, sort of define a lot of what packet radio is all about these days.

cut below the dotted line and save it  
If you run Mac/Win or any other program just save ALL DX clusters in one file named DX.POS.

If you run APRSdos, then save it in your APRS\POS directory as DX.EAS so it will come up when you are in the EAS MAP CONFIGURATION  
Each area will have a different file extension.

If you run APRSdata, then also save it as DX.POS, since it will define what you serve out to your local area as TinyWebPage info...

-----  
\* East Coast DX Clusters by WB4APR VA north to Maine  
144.95!4146.14N/07257.89W%  
145.63!4146.93N/07219.64W%  
144.93!4150.00N/07148.00W%  
145.73!4139.21N/07322.58W%  
145.75!4118.59N/07210.19W%  
145.77!4132.30N/07247.98W%  
145.67!4201.93N/07244.60W%  
145.75!4139.46N/07022.60W%  
144.99!4236.54N/07133.38W%

145.65!4236.54N/07133.38W%  
 144.95!4229.81N/07135.19W%  
 145.61!4213.00N/07130.73W%  
 145.73!4154.39N/07038.76W%  
 145.69!4217.40N/07107.74W%  
 144.93!4421.16N/06939.44W%  
 144.91!4336.38N/07020.93W%  
 144.93!4258.68N/07057.98W%  
 145.73!4246.60N/07147.90W%  
 145.71!4245.00N/07157.00W%  
 144.97!4244.11N/07403.64W%  
 145.67!4042.91N/07315.59W%  
 145.75!4117.79N/07352.66W%  
 145.71!4223.84N/07330.86W%  
 144.93!4050.00N/07303.00W%  
 145.69!4051.98N/07355.24W%  
 144.97!4040.16N/07333.34W%  
 145.77!4035.96N/07404.56W%  
 145.05!4105.10N/07346.64W%  
 145.67!4157.00N/07408.00W%  
 145.09!4102.44N/07348.51W%  
 145.09!4117.88N/07347.63W%  
 145.59!4126.00N/07130.00W%  
 144.97!4143.56N/07136.21W%  
 144.95!3927. N/07543. W%  
 145.53!3944. N/07533. W%  
 145.63!3924. N/07725. W%  
 145.59!3909. N/07701. W%  
 145.57!3901. N/07645. W%  
 145.61!3918. N/07637. W%  
 145.63!3858. N/07546. W%  
 145.51!3904. N/07707. W%  
 145.63!3950. N/07713. W%  
 145.77!3843.5 N/07708.5 W%  
 145.71!3859. N/07734. W%  
 145.63!3839. N/07715. W%  
 145.61!3939. N/07451. W%  
 145.57!4030. N/07450. W%  
 145.59!4020. N/07426. W%  
 145.53!4050.4 N/07428.2 W%  
 145.73!4102. N/07444. W%  
 144.99!4032.5 N/07431.9 W%  
 445.525!4032. N/07533. W%  
 145.77!4051. N/07952. W%  
 145.77!4011. N/07703. W%  
 144.99!4131. N/07543. W%  
 147.495!4048. N/07533. W%  
 145.69!4124. N/07528. W%  
 144.95!4022. N/07517. W%  
 144.93!4007. N/07529. W%  
 144.93!4029. N/08001. W%  
 145.69!4055.00N/07558.00W%  
 145.01!4114. N/07701. W%  
 145.01!3647. N/07616. W%  
 145.07!3701.33N/07623.55W%  
 145.09!3705.00N/08023.00W%  
 145.65!3710. N/08027. W%  
 145.67!3723. N/07909. W%  
 145.59!3719.95N/07916.63W%  
 145.61!3817. N/07728. W%  
 145.51!3859.8 N/07716.0 W%  
 145.53!3842.9 N/07714.0 W%  
 145.59!3733. N/07727. W%  
 144.99!3725. N/07727. W%  
 DX !3801. N/07902. W%  
 145.63!3817. N/08229. W%  
 145.63!3855. N/08144. W%

---

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## 723. [aprssig] Re: Interesting Occurrence - Wrapup

From: Gerry Creager <gerry@cs.tamu.edu>  
 Date: Wed, 14 Jun 2000 14:00:56 -0500  
 To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90947-2000.06.14-14.04.18--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Claude Head wrote:

>  
> Thanks to all who commented on this "interesting occurrence".  
>  
> Gerry, N5JXS - Multipath is evil - Multipath is evil! I agree :-)  
> I'm inclined to think this anomaly was caused by a specular  
> reflection from one or more of the nearby buildings. I think  
> "specular" because the position offset was sudden, and then  
> stable. The stability surprises me since the satellites are  
> moving pretty fast, but I guess the angular velocity of a satellite  
> can be pretty small under some conditions. Gerry, the antenna is a  
> a Trimble obtained from Paccomm, and is mounted at the center  
> of the dashboard as close to the windshield as I could get  
> it. Except for the direction toward the back of the car, it has a  
> pretty good view of the sky. Car is a '94 Chevy Caprice.

Plus 2 linear roof supports, a linear roof interface, all the stiff  
inside the car,  
a regular multipath haven. I suspect your notation of 'specular' is  
on-target.

> Jim, K5QQ, suggests that the shift might have been caused by a Garmin  
> "vehicle position" setting of "on the road" vs "actual". So  
> far as  
> I know, neither the GPS45 or Street Atlas v7.0 has such a  
> setting - I have certainly not made any such selection.

Unknown to me...

> Byron, WA6YLB, suggests that the offset might be caused by RFI from  
> the traffic signals themselves. Byron, I did not look at the  
> screens  
> until after I had stopped at the light. I have seen  
> interference from  
> power lines suppress the GPS signals completely, to the point  
> where  
> the system lost lock, but I've not seen RFI cause a sudden,  
> stable  
> offset before. I think this is unlikely.

I, too, have observed power-line suppression of the received signals,  
and EMI overload  
of some antennas used for GPS. I've also seen some RFI from high-band  
and UHF rigs.  
All of these have been experienced at high RF levels. I don't think the  
traffic signal RF devices are in the right range to cause problems, nor  
at a high enough power level. Most of the "active" signal preemption is  
actually receivers, with the transmitting hardware on the emergency  
vehicles.

> In summary, I think Gerry identified the problem correctly. I was just  
> surprised that I had not seen it before like this. Multipath errors must  
> be pretty common in the cities. Maybe they have been there all along,  
> and I just didn't notice them - or maybe they stand out better now that  
> SA has been turned off.

:-)

urban canyon effect caused by signal obstruction by tall buildings, or  
by multipath, has long been recognized as a problem that the various  
manufacturers have dealt with, or ignored. the sudden jump and equally  
sudden recovery suggest a relatively static error, like multipath off a  
fixed building. This is a valuable lesson to learn about GPS  
performance.

> Once again, thanks for the responses and the suggestions.

Glad to!

73, gerry n5jxs

--  
Gerry Creager | Never ascribe to Malice that  
Computer Science Department | which can adequately be  
Texas A&M University | explained by Stupidity.  
979.458.4020 (Phone) | -- Lazerus Long  
979.847.8578 (Fax)

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## 724. [aprssig] Re: Interesting Occurrence - Wrapup

From: "Rob Wittner" <rmw@rwa-inc.com>  
Date: Wed, 14 Jun 2000 15:28:39 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90949-2000.06.14-14.30.02--lyris.aprssig#tapr.org@lists.tapr.org>  
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> I, too, have observed power-line suppression of the received signals,  
> and EMI overload  
> of some antennas used for GPS. I've also seen some RFI from high-band  
> and UHF rigs.  
> All of these have been experienced at high RF levels. I don't think the  
> traffic signal RF devices are in the right range to cause problems, nor  
> at a high enough power level. Most of the "active" signal preemption is  
> actually receivers, with the transmitting hardware on the emergency  
> vehicles.

I've commented about this before, but I have an Alpine removable-face in-dash CD player in my car. If my GPS III is on the built-in antenna, and too close to the CD player while it (the CD player) is running, it "freaks out". I was on a trip one time and looked down long enough to see my car moving at over 600mph up the East Coast. This tends to make the trip odometer page look rather interesting... max speed = 662mph! ;-) After the high speed trip, the unit would bring up a dialog box indicating that it required a power cycle. I had Garmin check the unit out. They found an unrelated problem, repaired it and put the latest software on it, to no avail. I finally narrowed it down to just my car - and then when I moved the CD player to a new car, the light bulb went on. When the unit started misbehaving, I reached over and turned off the CD player and the III quickly recovered. Bizarre, to say the least...

-Rob

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## 725. [aprssig] Re: Dataradios

From: "Jack Plum" <jackplum@servtech.com>  
Date: Wed, 14 Jun 2000 15:54:12 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-90954-2000.06.14-14.58.10--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bob,

I have most of their product literature and as Byron said they are quite expensive.

We are in the final "negotiation" phase for a Dataradio system linking 7 towers over microwave and with about 400 vehicles (on UHF). Even though they are now at 19.2 (with fallback to lower speeds) we do not expect that because of our terrain, etc.

We are looking at about 400K for the system and equipping the first 20 vehicles

They really have a slick product line (the system we are looking at is IP based) (The MRM, BDLC, MobileMux, Paragon and MSC)

I

I am waiting for a couple of their Gemini and Integra products to play with.

73

Jack  
WX3P  
Ontario County Sheriff's Office

----- Original Message -----

From: "BobD" <BobD@virtualconst.com>  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Sent: Wednesday, June 14, 2000 9:31 AM  
Subject: [aprssig] Dataradios

> Take a look at [www.dataradio.com](http://www.dataradio.com) and tell me why we couldn't be using their  
> products on UHF or VHF for higher speed packet.

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## 726. [aprssig] Long Journey

From: "Roger Rockwell" <[wb4trz@usa.net](mailto:wb4trz@usa.net)>  
Date: Wed, 14 Jun 2000 16:7:36  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-90960-2000.06.14-16.10.56--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-90960-2000.06.14-16.10.56--lyris.aprssig#tapr.org@lists.tapr.org)>  
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Well the trip is on. After not much planning, our coast to coast cross country trip on a 50cc motor scooter has started. I left the Atlantic Ocean at Jacksonville, FL on June 10 at 0645. Traveling US Hwy 90 west bound. Destination, Cabrillo National Monument on the Pacific Ocean west of San Diego, Calif.

Showing off HAM radio and vehicle tracking. See maps, details, pictures at the following <http://www.qsl.net/k1pns/>

At my very first fuel stop, met 92 HarleyDs starting a day trip. Told them about APRS and two wanted to know to get a ham license. Look us up and honk if you see me going by. But you gotta be quick. At 30 MPH, I'm not in one place long. Hi Hi

Will be driving to New Orleans, La now to continue the trip without stopping in the morning.  
73Ds Roger

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## 727. [aprssig] Palm Program other than PocketAPRS

From: Brendan Keyport <[bkeyport@uswest.net](mailto:bkeyport@uswest.net)>  
Date: Wed, 14 Jun 2000 14:28:59 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-90963-2000.06.14-16.32.28--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-90963-2000.06.14-16.32.28--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Hi,

Is there a palm program, other than PocketAPRS, that'll work with APRS like stuff or through my TNC, that'll give me waypoint notification and handling, along with the standard APRS stuff minus maps and extra wastes of time for a handheld unit? Maps and such are useless, I want bulletins, personal messages, and the like, and waypoint handling - so I can find my way with my GPS, Palm III, and a printout from Mapblast.

Thanks.  
B Keyport (N7UIE, N7UIE-9 on aprs maps)

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## 728. [aprssig] APRSdata version DA4

From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
Date: Wed, 14 Jun 2000 20:31:27 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-90980-2000.06.14-19.35.16--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-90980-2000.06.14-19.35.16--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

This version of APRSdata.exe adds many items to the default files:

ATV, CLUB, CAMP, FD, DIGI, DX, FD, WX, NWS, NWR  
HELP, HOSP, IGATE, NET, PARK, RS, SATS, VOICE

And when you ask for HELP, it sends that to you on the DX list instead of



wasting your message memories.  
Also, now it will not send A027 at night when it is off.

Read the README\APRSdata.txt file for details. APRSdata.exe is distributed as ftp://tapr.org/aprssidosstuff/APRSdos/adat-exe.zip which includes all the unique files you will need to use APRSdata in your existing APRSdos system.

Most of the data files you already have because they are included in APRSdos, but you need to rename them. The new files are just what I built for my area, but they will at least show you the format.

If you out an APRSdata system on line. Please let me know so we can coordinate our coverage areas.

de WB4APR, Bob

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## 729. [aprssid] FM - Satellites

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Wed, 14 Jun 2000 22:45:16 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Cc: ht-aprs@lists.tapr.org,  
TAPR APRS Special Interest Group <aprssid@tapr.org>  
Message-ID: <LYR842-90990-2000.06.14-21.49.11--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Here is a one line summary of currently active FM birds that you can receive on your Mobile FM rig and mobile vertical whip antenna.

New items:

- 1) SUNSAT has turned off APRS mode while they manage high sun temps
- 2) MIR again goes silent as crew heads home

| SAT  | DOWNLNK | UPLINK  | S | MODE               | COMMENTS                     |
|------|---------|---------|---|--------------------|------------------------------|
| MIR  | 145.985 | 145.985 | 9 | S FM crew voice    | Off                          |
| U011 | 145.825 |         | 4 | R FM Bell202 ASCII | Telemetry only               |
| U014 | 435.070 | 145.975 | 5 | J FM Voice rprr    | lots of fun every pass       |
| A027 | 436.795 | 145.850 | 3 | J FM Voice rprr    | days only but fun            |
| S035 | 145.825 | 436.290 | 8 | B FM Voice rprr    | Off while in hot sun         |
| S035 | 145.825 | 436.290 | 8 | B 9600 bd FSK digi | Off while in hot sun         |
| U022 | 435.120 | 145.900 | 3 | J 9600 bd FSK BBS  | ON                           |
| K023 | 435.170 | 145.900 | 4 | J 9600 bd FSK BBS  | ON but with probs in eclipse |
| K025 | 436.500 | 145.980 | 3 | J 9600 bd FSK BBS  | ON                           |
| T031 | 436.925 | 145.925 | 5 | J 9600 bd FSK DATA | ON downlinks images          |

\* If you dont hear it, then DONT TRANSMIT! Either the bird is dead or your station is deaf. Don't embarrass yourself and QRM everyone

Between the hours of about 6 AM to noon and 6 PM to midnight local SUN time there is usually one of these birds in view for a few minutes to keep you entertained while traveling. UHF requires +/- 5 or 10 KHz Doppler tuning. The "S" column is a subjective signal strength assessment. A 20" vertical whip in the center of your car roof will give you success as shown below. This acts as a 3/4 wave on UHF giving almost 8 dBi above 30 degrees over a good groundplane for the UHF downlink birds. For SUNSAT which operates mode B with a stronger 2m downlink and your 50 watt mobile uplink, your normal dual-band mobile antenna will do better closer to the horizon.

| USING THE 20" WHIP FOR MODE J PACSATS:                                                                                                                                                                                                                                                                                                     | SIG RECEIVE RANGE     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| As a rough approximation consider this table which I have subjectively determined after 3 months of daily monitoring. Home stations with 50' of RG 8 should subtract abt 3 from the signals and 5/8 or dual band, or "gain" antennas should also subtract about 2.                                                                         | 9 Horizon to Horizon  |
|                                                                                                                                                                                                                                                                                                                                            | 8 5 deg and above     |
|                                                                                                                                                                                                                                                                                                                                            | 7 10 deg and above    |
|                                                                                                                                                                                                                                                                                                                                            | 6 15 deg and above    |
|                                                                                                                                                                                                                                                                                                                                            | 5 20 deg and above    |
|                                                                                                                                                                                                                                                                                                                                            | 4 25 deg and above    |
|                                                                                                                                                                                                                                                                                                                                            | 3 30 deg and above    |
| The PACSATS do not officially digipeat UI packets, but you can still see status and telemetry and the USER lists on your Kenwood data radios or any radio with 9600 baud TNC. For more info on mobile satellite operations see <a href="http://web.usna.navy.mil/~bruninga/astars.html">http://web.usna.navy.mil/~bruninga/astars.html</a> | 2 3 ele beam required |
|                                                                                                                                                                                                                                                                                                                                            | 1 6 ele beam required |

Errors, omissions, corrections welcome. I will re-post this when ever I hear of changes in status. For more detail, of course, read the AMSAT News Service bulletins and AMSAT WEB pages <http://www.amsat.org>

de WB4APR, Bob

----

Via the amsat-bb mailing list at AMSAT.ORG courtesy of AMSAT-NA.  
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### 730. [aprssig] OT: MVP Manual Need

From: Dale Seaburg <[kg5lt@earthlink.net](mailto:kg5lt@earthlink.net)>  
Date: Wed, 14 Jun 2000 22:21:26 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-90991-2000.06.14-22.26.13--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-90991-2000.06.14-22.26.13--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

I'm setting up my mobile rig for APRS, and don't have a service manual for the GE MVP radio. Does anyone on the list have an extra service manual they are willing to part with? I'm willing to buy a copy. I emailed Ericsson, who bought out GE, and they say that the manual is no longer available - the radio is too old!

Thanks for your help. Sorry for the sorta off-topic.

Please email me off-the-sig if you can help.

73 - Dale. KG5LT

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### 731. [aprssig] Weather Station Siting

From: Russ Chadwick <[kb0tvj@bouldernews.infi.net](mailto:kb0tvj@bouldernews.infi.net)>  
Date: Wed, 14 Jun 2000 22:58:46 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-91014-2000.06.15-00.02.12--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-91014-2000.06.15-00.02.12--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

There has been some discussion on wxsig and aprssig about the standards that apply to siting of weather stations. Recently, I learned of a web page that gives recommended standards on weather station siting at airports. This information is from a report by the Office of the Federal Coordinator for Meteorology (OFCM).

Even though the report is targeted toward airport weather stations, it gives some useful information which I would think of as recommendations (but not necessarily requirements) for siting citizen weather stations. The URL is:

<http://www.ofcm.gov/siting/text/a-cover.htm>

For citizen weather stations, I think that the best approach is to do the best that you can and check the equipment regularly to be sure that it is working reliably. If you don't meet the letter of this report, the data is still very useful. The most important thing is that you should never put the sensors in unsafe locations, i.e. it's better to have the wind sensor in a low, safe place than in a high, unsafe place.

Russ  
[kb0tvj](mailto:kb0tvj)

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### 732. [aprssig] Pic-E

From: Ron Walther <rascal@azstarnet.com>  
Date: Wed, 14 Jun 2000 22:06:13 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91016-2000.06.15-00.08.35--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Good Evening Folks;

Does anyone have any idea what the Radio Shack part number is for the enclosure that TAPR uses to house the Pic-E..??..

73. ron -- W7AI

---

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### 733. [aprssig] winAPRS path with Baypac

From: "Andrew Witham" <awitham@searcher.org>  
Date: Wed, 14 Jun 2000 22:10:11 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91017-2000.06.15-00.17.14--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Can someone tell me how to change the unpronto path on winAPRS using TCP/IP & a Baypac modem. Changing the TNC settings has no effect. RTFM & still no clue.

Drew W1SAR

---

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---

### 734. [aprssig] RE: [amsat-bb] FM - Satellites

From: Tony Langdon <tlangdon@atctraining.com.au>  
Date: Thu, 15 Jun 2000 16:02:19 +1000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: ht-aprs@lists.tapr.org,  
TAPR APRS Special Interest Group  
<aprssig@tapr.org>  
Message-ID: <LYR842-91026-2000.06.15-01.06.33--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> \* If you dont hear it, then DONT TRANSMIT! Either the bird is dead  
> or your station is deaf. Don't embarass yourself and QRM everyone

Well said Bob. I think one can't say this too many times. :-)

---

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### 735. [aprssig] RE: Tiny-Web-Pages!

From: "Henk de Groot (EMN)" <Henk.de.Groot@emn.ericsson.se>  
Date: Thu, 15 Jun 2000 11:25:54 +0200  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91031-2000.06.15-04.36.48--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hello Bob and others,

> -----Original Message-----  
> Yesterday I mentioned the concept of "Tiny-Web-Pages" for  
> supplying data  
> to the Kenwood D7 and D700 mobile and handheld front panels.  
>  
> Stayed up most of the night and now we have APRSdata.exe.

I'm currently building a similar thing for the DIGI\_NED digipeater. In the current version you can already send queries to the digipeater like "?up" for the uptime, "?ver" for version and more extensive commands link "?mheard 1" for direct stations heard on port 1 and "?mheard pe1dnn-2" to query then "pe1dnn-2" was last heard on which port.

I'm now opening up this feature. Currently all the queries and replies where hard-coded. I'm now

softcoding them in a file - at least for all simple static responses.

The file will look like this:

```
-----  
;  
; Formatting to fit nicely on the 12 character TH-D7  
; display without looking too ugly for other users  
;  
  
; this is the default reply if nothing matches  
?  
Use: ?help for help  
  
; help text, should guide to all other commands  
?help  
Cmds: ?voice ?bbs ?net  
  
; voice repeaters, QRG and shift  
?voice  
PI3APD at 145.725 -0.6  
PI4APD at 430.150 +1.6  
  
; packet BBS QRG  
?bbs  
PI8APD 2m 144.9375  
PI8APD 70cm 430.8375  
  
; nets, net-call, weekday, time and QRG, in this  
; case a voice repeater  
?net  
PI4SDH THU 21:15@PI3APD  
PI4APD SUN 20:00@PI3APD  
-----
```

Etc. The words starting with a ? are the queries, the lines below it are the responses (can be multiple lines, up to the next query, lines starting with ';' are comment and empty lines are ignored).

Of course the sample I will supply will be more extensive and all the commands can be found through "?help". The memory is the only limitation for the amount of commands you can specify.

There are some differences to Bobs approach. First of all you have to send the message to the DIGI and not to some alias. I think this is not a problem. The DIGI announces itself with a beacon anyway and in the station list you can see the distance. Instead of asking "QD05" for a digi you can just send the already defined ?APRS? broadcast query if you don't want to wait for a beacon. By direct addressing a specific station you avoid that multiple stations answer the same question.

When a user sends a random message to the digi he/she will get a default reply which will put the user on the right track without assuming any knowledge by the user at forehand of this feature (otherwise you have to educate the users to use the "QD05" address and education of a large population is very hard to do).

The next difference is that all query messages start with '?', this is according to the APRS specification and just like all the other station queries - why use something different. This way there is nothing special about the queries. They are also normally acked and the response will also be a normal message back. When a response has more lines then they are transmitted with 5 seconds spacing.

By putting this in a digipeater you have this information on high-located node which can be easily accessed by a lot of users. If you don't want the information there, the digipeater can redirect you to a station that can help you by having this simple response file:

```
-----  
; this is the default reply if nothing matches  
?  
Area info on PE1MEW-2  
-----
```

Although this implements the same idea as Bob's solution, I think this is more in line with the APRS specification and fits in without having to make any changes.

This feature will be part of DIGI\_NED 0.1.2 where I'm working on. I will make it so that the message file can be updated while the digi keeps on running. So on Linux you don't have to bring the DIGI down to refresh the information. Even on DOS this will be possible if you can access the harddisk while DIGI\_NED is running (seems to be possible through a network).

The Linux users who are fond of shell-scripts can let the shell-script generate and update the message file to have more dynamic data in them like satellite orbit data etc. I think your imagination is the limit. But also the display of the more static data will help visiting mobile stations a lot to make

contacts and found out more about the environment they entered (voice repeaters, bbses, nets, shops etc are all more or less static data).

Kind regards,

Henk.

--

#####  
The difference between theory and practice in practice is bigger than  
the difference between theory and practice in theory.

Henk de Groot | Tel: +31 53 4505400 Ext: 5400  
<Henk.de.Groot@emn.ericsson.se> | Ericsson Business Mobile Networks

---

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### 736. [aprssig] Re: mangled packets

From: "Henk de Groot (EMN)" <Henk.de.Groot@emn.ericsson.se>  
Date: Thu, 15 Jun 2000 12:35:04 +0200  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91036-2000.06.15-05.39.00--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hello Jeff.

> -----Original Message-----  
> Mangled packets should never make it to internet, IF everyone  
> has PASSALL  
> OFF set. Incomplete or damaged over-the-air packets should  
> die within the  
> receiving TNC.

Not completely true. AX.25 frames are protected with a 16 bit CRC.  
That means that there is a 1 in 65536 chance that damaged packet  
still gets through. If you have a real flaky connection some of  
those damaged packets will indeed get through. So the lot of packets  
should die in the TNC, but always anticipate some to slip through,  
16 CRC is not very strong for bit-error prone radio use. Therefore  
Software handling AX.25 packets should always be robust and never  
crash on faulty packets.

Kind regards,

Henk.

---

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---

### 737. [aprssig] RE: SSID Mode Digipeating

From: "Henk de Groot (EMN)" <Henk.de.Groot@emn.ericsson.se>  
Date: Thu, 15 Jun 2000 13:00:41 +0200  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91038-2000.06.15-06.04.58--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hello Allan,

> -----Original Message-----  
> Correct me if I'm wrong... but doesn't this require "a  
> priori" knowledge on the part of every digi - as to what  
> the next digi is in any direction...

Yes. For example in DIGI\_NED you can program what the next digi  
is on the path. Example rules you could make:

```
;-----  
;  
; APRS sig specific example  
;  
; *-8 will go north-bound, SSID changed to 0 added north-bound digipeater  
; *-9 will go south-bound, SSID changed to 0 added south-bound digipeater  
; *-10 will go east-bound, SSID changed to 0 added east-bound digipeater  
; *-11 will go west-bound, SSID changed to 0 added west-bound digipeater
```

```
;
digito: 1 *-8 all 0 add PD0JEY-2
digito: 1 *-9 all 0 add PE1MEW-2
digito: 1 *-10 all 0 add PE1PHA-2
digito: 1 *-11 all 0 add PA0RYS-2
;
; *-12 will go north-bound same as above with additional WIDE
; *-13 will go south-bound same as above with additional WIDE
; *-14 will go east-bound same as above with additional WIDE
; *-15 will go west-bound same as above with additional WIDE
;
digito: 1 *-12 all 0 add PD0JEY-2,WIDE
digito: 1 *-13 all 0 add PE1MEW-2,WIDE
digito: 1 *-14 all 0 add PE1PHA-2,WIDE
digito: 1 *-15 all 0 add PA0RYS-2,WIDE
;
;-----
```

So a received packet on port 1 with

PE1DNN>APRS-13

Will be repeated by the digi as:

PE1DNN>APRS,PE1MEW-2,WIDE

The digipeater PE1MEW-2, which is south from me, will take the packet and do the usual APRS digipeating on the WIDE call following the digipeater call.

In fact you can convert the incoming path to anything you like. This way the digipeater knows how to transmit the packet (you can also have different ports for different directions, in that case 'all' should be replaced by the port numbers on which the packet should be transmitted).

Kind regards,

Henk.

---

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## 738. [aprssig] Re: TH-D7 (G)

```
From: "Joel B. Black" <jbblack@mindspring.com>
Date: Thu, 15 Jun 2000 06:01:31 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: "APRSSig" <aprssig@lists.tapr.org>
Message-ID: <LYR842-91040-2000.06.15-06.06.37--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

This is my digi (k2sat-7) setup. It's basically copied from <http://www.theworks.com/~wa6ylb/tnc200.txt>. Unfortunately, I'm not sure why some of the settings are what they are. I'm using a Paccomm PicoPacket rev 5. Does anyone see anything incorrect in the settings? A friend of mine and I are having problems connecting with our TH-D7A(G)'s. I'm wondering if I have something set incorrectly in the digi TNC.

No flames please, just help.

```
MYCall K2SAT-7
MYPcall K2SAT-10
RMTcall K2SAT-15
MYAlias TCL
MY1alias WIDE
MY2alias RELAY
DIGipeat ON
Beacon EVERY 120
LOCation EVERY 120
BText !3642.40NT11901.44W#PHG7470/A=000250/W-R Tuscaloosa AL
LTEXT !3642.40NT11901.44W#PHG7470/A=000250/W-R Tuscaloosa AL
Unproto APRS VIA KD4QIA-7,KB4ECY-7,N4KMJ-7,KD4QIA-2
CONOk ON
CMSg ON
CText Not a NODE. For more info about this DIGI, please email
k2sat@amsat.org
MSGDisc ON
HId OFF
```

STExt No Forwarding. Stand alone Mail box. For info, read MSG 1  
REtry 15  
UIMODE OFF  
USers 3  
CONStamp OFF  
LOGonmsg OFF  
PMs ON  
REMOte ON  
REMSysop ON

----- Original Message -----

From: Don DeJarnette <ddej@simplecom.net>  
To: Joel B. Black <jbblack@mindspring.com>  
Sent: Wednesday, June 14, 2000 7:59 AM  
Subject: Re: TH-D7 (G)

> I wish !!  
>  
> I went through all the manuals and have changed every parameter I can find  
> to no avail. The digi doesn't seem to recognize the TH-D7. I even set up  
my  
> Yaesu on 144.390 to see if the TH-D7 was transmittting 1200 baud packet.  
It  
> sounded like it was. I have changed everything from path  
> (relay,wide:k2sat-7:k2sat-7,wide:relay:wide) to my callsign.How did you  
set  
> up the alias (relay, wide ???) ? I wish I had a solution. There is  
something  
> all these other stations are doing that I'm not. Maybe we can get together  
> sometime here in Tuscaloosa to verify that both of our units are  
> transmitting correctly. Hopefully the TH-D7 will receive each other's  
> packets. My initial exuberance is turning into depression.  
>  
> Don  
>  
>

---

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---

### 739. [aprssig] RE: Tiny-Web-Pages!

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Thu, 15 Jun 2000 09:15:59 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91046-2000.06.15-08.20.02--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Thu, 15 Jun 2000, Henk de Groot (EMN) wrote about TinyWebPages:

> I'm currently building a similar thing for the DIGI\_NED digipeater.  
<snip>  
> The next difference is that all query messages start with '?', this is  
> according to the APRS specification and just like all the other station  
> queries - why use something different.

Good point. I backed into it because I first wanted to include the "?" in the alias and found out that the Kenwoods would not let you enter a "?" character in the MESSAGE TO-CALL. Later when I changed the alias to QDOS and was naming the query files, I was thinking that the "?" in front of each word was just redundant and for users entering them from a T-Tone key pad, it was just redundant, since any message to the alias of QDOS was already, by definition, a query... SO I dropped them.

But I see your point. I should probably put them in for consistency with everything else. I will do that.

Bob

---

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## 740. [aprssig] Magellan 300

From: "Carter Cogle" <ccogle@bellatlantic.net>  
Date: Thu, 15 Jun 2000 09:43:14 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91055-2000.06.15-08.44.29--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi All:

Today's newspaper has a flyer from KMart advertising the Magellan 300 for \$85. I don't know if this model outputs NMEA to a PC or not. Magellan has a new model 310 which does support the PC interface, and the street price on this one appears to be \$150.  
Just FYI, no affiliation with KMart.

73,  
Carter  
K4ARO

---

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## 741. [aprssig] Re: Dataradios

From: Byron Smith <wa6ylb@theworks.com>  
Date: Thu, 15 Jun 2000 06:55:12 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: aprssig@tapr.org  
Message-ID: <LYR842-91060-2000.06.15-09.07.35--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 03:54 PM 06/14/2000 -0400, you wrote:

>Bob,  
>

>I have most of their product literature and as Byron said they are quite  
>expensive.

Not to mention, they are not peer to peer friendly at all. Most of the product is host to user based, or a specific point to point.

Byron Smith  
wa6ylb@theworks.com  
wa6ylb@wa6ylb.#nca.ca.usa.noam  
ICQ 26114994

<http://www.theworks.com/~wa6ylb>

"Luge strategy? Lie flat and try not to die."

---

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## 742. [aprssig] Remote TNC/Radio

From: "Dennis Hudson, N2LBT" <n2lbt@n2lbt.com>  
Date: Thu, 15 Jun 2000 10:14:12 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91068-2000.06.15-09.22.40--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I am interested in sending/receiving TNC data remotely to a hilltop from a more "accessible" location. The purpose would be to send APRSd and APRSData or Digi-Ned information to a new or existing wide area location. The driving forces here are, one; just the fun of doing the project, and two; taking away the extra hops needed to access the IGate and APRSdata, hopefully reducing local channel loading.

I have access to some commercial PacComm NB96 modems, and some low power 70cm radios for them. If there is anyone that has any ideas or experience with a similar setup let me know. I am relatively new to U\*IX and APRSd, so possibly it's easy to "remote" serial comms over an AX.25 link, and if so someone could point me in the right direction.

I would also appreciate any comments that founders and engineer types might



have about the advantage-disadvantages there might be to this setup. ie: If the time and money spent setting up and maintaining the link, as compared to the amount of VHF bandwidth that would be saved while still offering these "advanced" APRS functions to our area.

Thanks in advance, 73

--  
Dennis Hudson, N2LBT  
mailto:n2lbt@n2lbt.com  
http://www.n2lbt.com

---  
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## 743. [aprssig] Re: Weather Station Siting

From: John <johnk.mchugh@worldnet.att.net>  
Date: Thu, 15 Jun 2000 11:01:59 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91072-2000.06.15-10.02.29--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Russ Chadwick wrote:

>  
> There has been some discussion on wxsig and aprssig about the standards  
> that apply to siting of weather stations. Recently, I learned of a web  
> page that gives recommended standards on weather station siting at  
> airports.

If you go to our web page and click the Volunteer Observer Network, then go to How to get accurate wind measurements you will find some useful info. I also encourage any one, ham or not who has a weather station and lives near to the coast line to sign up to become a part of the Observer Network.

John

--  
John Mc Hugh, KU4GY  
Coordinator for Amateur Radio  
National Hurricane Center, W4EHW  
Miami, Florida  
Home Page: <http://www.fiu.edu/orgs/w4ehw/>

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## 744. [aprssig] DM700 question

From: Greg Higgins <greg@onramp.net>  
Date: Thu, 15 Jun 2000 10:13:05 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91073-2000.06.15-10.13.18--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I finally scraped up the money and purchased the D700a. What a fine radio! I have some questions that arose after monitoring my packets at the home station and was hoping that someone could enlighten me!

The received packets are:  
KB5GLV-15>S2USOV, RELAY, WIDE: ' } 641 2 K / ] greg@onramp.net  
KB5GLV-15>S2USOV, RELAY, WIDE: ' } 631 2 K / ] " 6 [ }

Can anyone tell me what "S2USOV" means and what is the meaning for everything after "WIDE"?

Also, when I in the P.MON mode, is there a way to turn off the "GPSTXT was" statement that keeps flashing through. Or are you suppose to leave well enough alone! Is there is a web page for the D700a that I could turn to for help?

Thanks for the time and responses!!

Greg Higgins KB5GLV

---

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---

## 745. [aprssig] RE: DM700 question

From: Samuel Barker <srbarker@chgw.com>  
Date: Thu, 15 Jun 2000 09:29:21 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91078-2000.06.15-10.35.04--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi Greg,

The packets you're looking at are in the MIC-E compressed format (or at least something close to it). the first set of characters after your call sign is usually a static path variable, but in the compressed format is actually data that will be decoded as part of your lat/lon and speed/heading info, along with everything after the path statement. Other Kenwood radios, digipeaters, and APRS stations will decode that packet to read as standard lat/lon information.

As for the "GPS Text Was" stuff on the packet monitor screen, I know how annoying that can be, but I can't find a way to suppress it either. And I haven't been able to find any really good web pages out there, but I'm probably just not looking hard enough.

Samuel, W7YYY

-----Original Message-----

From: bounce-aprssig-17117@lists.tapr.org  
[mailto:bounce-aprssig-17117@lists.tapr.org] On Behalf Of Greg Higgins  
Sent: Thursday, June 15, 2000 9:13 AM  
To: TAPR APRS Special Interest Group  
Subject: [aprssig] DM700 question

I finally scraped up the money and purchased the D700a. What a fine radio! I have some questions that arose after monitoring my packets at the home station and was hoping that someone could enlighten me!

The received packets are:

KB5GLV-15>S2USOV, RELAY, WIDE: ' } 641 2 K / ] gregh@onramp.net  
KB5GLV-15>S2USOV, RELAY, WIDE: ' } 631 2 K / ] " 6 [ }

Can anyone tell me what "S2USOV" means and what is the meaning for everything after "WIDE"?

Also, when I in the P.MON mode, is there a way to turn off the "GPSTXT was" statement that keeps flashing through. Or are you suppose to leave well enough alone! Is there is a web page for the D700a that I could turn to for help?

Thanks for the time and responses!!

Greg Higgins KB5GLV

---

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## 746. [aprssid] Re: DM700 question

From: "Thomas M. Schaefer" <toms@inconnect.com>  
Date: Thu, 15 Jun 2000 09:33:05 -0600  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-91079-2000.06.15-10.35.33--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Everything after WIDE is the compressed MIC-E packet. This is the format the D700 uses. I do not remember about the S2USOV specifically, but that is the identifier as to what radio/program sent the packet.

Also, when in P.MON, you cannot simply exclude the GPS messages. If you want to look at it without that, I would make a special PM memory with the same features you now have, but with the GPS disabled in the radio menus. Then you will be able to see data without the GPS update.

There are a few web pages. There is also a TMD700A group on onelist you can search the archives if you like. Just go to onelist.com and search for D700.

Tom NY4I

----- Original Message -----

From: "Greg Higgins" <gregh@onramp.net>  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Sent: Thursday, June 15, 2000 9:13 AM  
Subject: [aprssid] DM700 question

> I finally scraped up the money and purchased the D700a. What a fine radio!  
> I have some questions that arose after monitoring my packets at the home  
> station and was hoping that someone could enlighten me!  
>  
> The received packets are:  
> KB5GLV-15>S2USOV, RELAY, WIDE: ' } 641 2 K / ] gregh@onramp.net  
> KB5GLV-15>S2USOV, RELAY, WIDE: ' } 631 2 K / ] " 6 [ }  
>  
> Can anyone tell me what "S2USOV" means and what is the meaning for  
> everything after "WIDE"?  
>  
> Also, when I in the P.MON mode, is there a way to turn off the "GPSTXT  
was"  
> statement that keeps flashing through. Or are you suppose to leave well  
> enough alone! Is there is a web page for the D700a that I could turn to  
for  
> help?  
>  
> Thanks for the time and responses!!  
>  
> Greg Higgins KB5GLV  
>  
> ---  
> You are currently subscribed to aprssid as: toms@inconnect.com  
> To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org  
>

---

You are currently subscribed to aprssid as: lyris.aprssid@tapr.org  
To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org

## 747. [aprssid] Re: DM700 question

From: Bill Diaz <billdiaz@megsinet.net>  
Date: Thu, 15 Jun 2000 10:59:27 -0500  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-91082-2000.06.15-11.02.57--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Gregg,

S2USOV contains the MicE encoded latitude, encoded message (In Service, Off duty, etc), path, and other location related information. The MicE encoded information after the colon contains longitude, speed, course or heading, selected Icon etc.,. Status text may appear after this information.

The 'GPSTxt was' information that appears when in P.Mon is commands the D700 is sending to the internal TNC. This, and similar commands are required to

operate the D700 in APRS mode.

If you want to just see the data output from the TNC you must operate in Data mode rather than APRS mode. As Tom noted, the GPS messages can be suppressed by disabling the GPS.

Bill KC9XG

On Thursday, June 15, 2000 10:33 AM, Thomas M. Schaefer

[SMTP:toms@inconnect.com] wrote:

> Everything after WIDE is the compressed MIC-E packet. This is the format the  
> D700 uses. I do not remember about the S2USOV specifically, but that is the  
> identifier as to what radio/program sent the packet.

>

> Also, when in P.MON, you cannot simply exclude the GPS messages. If you want  
> to look at it without that, I would make a special PM memory with the same  
> features you now have, but with the GPS disabled in the radio menus. Then  
> you will be able to see data without the GPS update.

>

> There are a few web pages. There is also a TMD700A group on onelist you can  
> search the archives if you like. Just go to onelist.com and search for D700.

>

> Tom NY4I

>

>

> ----- Original Message -----

> From: "Greg Higgins" <gregh@onramp.net>

> To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

> Sent: Thursday, June 15, 2000 9:13 AM

> Subject: [aprssig] DM700 question

>

>

> > I finally scraped up the money and purchased the D700a. What a fine radio!

> > I have some questions that arose after monitoring my packets at the home

> > station and was hoping that someone could enlighten me!

> >

> > The received packets are:

> > KB5GLV-15>S2USOV, RELAY, WIDE: ' } 641 2 K / ] gregh@onramp.net

> > KB5GLV-15>S2USOV, RELAY, WIDE: ' } 631 2 K / ] " 6 [ }

> >

> > Can anyone tell me what "S2USOV" means and what is the meaning for

> > everything after "WIDE"?

> >

> > Also, when I in the P.MON mode, is there a way to turn off the "GPSTXT  
> was"

> > statement that keeps flashing through. Or are you suppose to leave well

> > enough alone! Is there is a web page for the D700a that I could turn to

> > for

> > help?

> >

> > Thanks for the time and responses!!

> >

> > Greg Higgins KB5GLV

> >

> > ---

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> > To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

> >

> >

> >

> > ---

> > You are currently subscribed to aprssig as: BILLDIAZ@MEGSINET.NET

> > To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

> >

> >

> >

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

---

## 748. [aprssig] OT: Whither is TAPR?

From: "John B. Leonard, Jr." <jleonard@tbcnet.com>

Date: Thu, 15 Jun 2000 11:10:57 -0500

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Message-ID: <LYR842-91084-2000.06.15-11.14.11--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

Forgive my departure from APRS, but the TAPR web page updates seem to have halted sometime in early May. Specifically, Newslines updates have ceased. Up until May, it seemed to be updated regularly.

What's up?

Thanks

jbl  
w9jbl

---  
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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

---

## 749. [aprssig] Re: DM700 question

From: Ian Wade <Ian.Wade@care4free.net>  
Date: Thu, 15 Jun 2000 17:34:42 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91089-2000.06.15-11.46.13--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In article <LYR14778-91073-2000.06.15-10.13.18--Ian.Wade#care4free.net@lists.tapr.org>, Greg Higgins <gregh@onramp.net> writes  
>I finally scraped up the money and purchased the D700a. What a fine radio!  
>I have some questions that arose after monitoring my packets at the home  
>station and was hoping that someone could enlighten me!  
>  
>The received packets are:  
> KB5GLV-15>S2USOV, RELAY, WIDE: ' } 641 2 K / ] gregh@onramp.net  
> KB5GLV-15>S2USOV, RELAY, WIDE: ' } 631 2 K / ] " 6 [ }  
>  
>Can anyone tell me what "S2USOV" means and what is the meaning for  
>everything after "WIDE"?

Hi Greg. The "S2USOV" and other the information are your lat/long position, speed and course, encoded in "Mic-E" format. This format allows all this information to be transmitted in very short packets.

For full details of all this, take a look at the APRS Protocol Spec, at <http://www.tapr.org/tapr/html/Faprswg.html>

73  
Ian, G3NRW  
Technical Editor, APRS Protocol Specification  
\*\*\*\*\* Third draft now available \*\*\*\*\*

--  
+-----+  
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |  
| email: g3nrw@arrl.net |  
| | |  
| APRS PROTOCOL SPEC: <http://www.tapr.org/tapr/html/Faprswg.html> |  
| APRS DECODER: <http://www.metro.co.uk/aprs.htm> |  
+-----+

---  
You are currently subscribed to aprssig as: lyris.aprssig@tapr.org  
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

---

## 750. [aprssig] Re: DM700 question

From: "Aaron" <ae4ko@amsat.org>  
Date: Thu, 15 Jun 2000 13:34:24 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91092-2000.06.15-12.37.01--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> Also, when I in the P.MON mode, is there a way to turn off the "GPSTXT  
> was" statement that keeps flashing through. Or are you suppose to  
> leave well enough alone! Is there is a web page for the D700a that I  
> could turn to for help?

Check out <http://home.netcom.com/~jimgill/tmd700a.htm> put together by Jim Gill. Best site of usefull stuff about the radio that I have found to date! Good job Jim!

---  
(Random Quote)  
Bagpipes (n): an octopus wearing a kilt.

---

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---

## 751. [aprssig] D700 and "Flashing GPS"

From: Greg Higgins <[gregh@onramp.net](mailto:gregh@onramp.net)>  
Date: Thu, 15 Jun 2000 12:39:43 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-91093-2000.06.15-12.39.58--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-91093-2000.06.15-12.39.58--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

I have wired my Garmin 45 (yes, I know its ancient) to the D700. If the GPS is not powered up and the radio is on (TNC APRS mode) the letters "GPS" on the radio does not flash. When the GPS unit is on (and satellites locked in according to the GPS unit) the "GPS" on the radios flashes. I assumed that the flashing "GPS" meant everything was working. If this is bad, what can I do to fix the problem?

I was out this morning and left the home station running to track me. When I returned, the track and speed seemed correct.

THANKS to all who responded to my first question this morning!!!

Greg Higgins KB5GLV

---

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To unsubscribe send a blank email to [leave-aprssig-842K@lists.tapr.org](mailto:leave-aprssig-842K@lists.tapr.org)

---

## 752. [aprssig] TNC-1 question

From: Earl Needham <[KD5XB@AMSAT.ORG](mailto:KD5XB@AMSAT.ORG)>  
Date: Thu, 15 Jun 2000 11:43:24 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-91094-2000.06.15-12.50.59--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-91094-2000.06.15-12.50.59--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

I have an old Heathkit HD-4040 that has a KISS chip in it, allowing me to use it with WinAPRS. I'd like to use it with DosAPRS (APRSdos?), but that program doesn't have the KISS interface built in.

I tried to do this once before, with the original chip in the TNC, but I didn't have any luck getting it to run.

Does something special need to be done here? Or a special setup file?

Anybody else done this and made it work?

7 3

Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)  
PGP Key ID 0x00BF1A39

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

---

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To unsubscribe send a blank email to [leave-aprssig-842K@lists.tapr.org](mailto:leave-aprssig-842K@lists.tapr.org)

---

## 753. [aprssig] Re: D700 and "Flashing GPS"

From: Robbie Robertson <[mwrobertson@mediaone.net](mailto:mwrobertson@mediaone.net)>  
Date: Thu, 15 Jun 2000 12:48:03 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-91095-2000.06.15-12.51.36--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-91095-2000.06.15-12.51.36--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Greg Higgins wrote:

>

> I have wired my Garmin 45 (yes, I know its ancient) to the D700. If the GPS  
> is not powered up and the radio is on (TNC APRS mode) the letters "GPS" on  
> the radio does not flash. When the GPS unit is on (and satellites locked in  
> according to the GPS unit) the "GPS" on the radios flashes. I assumed that  
> the flashing "GPS" meant everything was working. If this is bad, what can I  
> do to fix the problem?

>  
> I was out this morning and left the home station running to track me. When  
> I returned, the track and speed seemed correct.  
>  
> THANKS to all who responded to my first question this morning!!!  
>  
> Greg Higgins KB5GLV  
>  
> ---

Hi Greg, The flashing GPS means you are receiving good data from the Garmin.. Depending on the sky, and the GPS receiver being used, it can take any amount of time for the sync to take place... Enjoy as I do!! ;-)

Robbie

--  
-----  
Are we having fun yet?  
73 - Robbie - WA9INF  
\*\*\*\*\* --... --... \*\*\*\*\*

---  
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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

## 754. [aprssig] RE: [htaprs] Locked up D7A

From: Busch Thomas H CNIN <Busch\_T@crane.navy.mil>  
Date: Thu, 15 Jun 2000 12:48:38 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "'jsissom@indiana.edu'" <jsissom@indiana.edu>  
Message-ID: <LYR842-91096-2000.06.15-12.52.32--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Happened to me at Dayton.

It would not exit from the "Resetting" page, and even disconnecting the battery and reconnecting did nothing.

I shipped it to Virginia Beach, and after they had it a week and a half, they E-mailed me and basically told me they gave up and sent it to the West Coast service center, Cerritos, I imagine.

I'm patiently waiting for word right now.

TomB

> -----Original Message-----  
> From: Bill McLarty [SMTP:bmclarty@trustmark.com]  
> Sent: Thursday, June 15, 2000 8:24 AM  
> To: TAPR Hot Technology APRS  
> Subject: [htaprs] Locked up D7A  
>  
>  
>  
> Good morning all.  
>  
> Yesterday I noticed I had strange characters at MSG INPUT. I could  
> delete them  
> but they would not stay deleted. Once I went to the end of the string of  
> characters to try to delete from that end and the HT locked up.  
>  
> I then referred to page 32 in the Instruction Manual and followed the  
> steps for  
> a partial reset. After selecting OK I got the message "RESETTING! wait a  
> moment." That's where it is hung now. I have to pop the battery off to  
> turn it  
> off. Pressing F+Power On does not send me back to reset.  
>  
> BTW, mine is an early production unit (SN 00900057) with the firmware  
> upgrade  
> but not the G. I was counting on taking it to Boy Scout camp in North  
> Carolina  
> next week (I'm from Mississippi).  
>  
> The Kenwood Service Center in Virginia Beach is not answering the phone  
> yet this  
> morning. Any ideas? Thanks in advance.

>  
> Bill McLarty, KM5GE  
>  
>  
>  
> ---  
> You are currently subscribed to htaprs as: tomb@kiva.net  
> To unsubscribe send a blank email to leave-htaprs-9854L@lists.tapr.org  
  
---  
You are currently subscribed to aprssig as: lyris.aprssi@tapr.org  
To unsubscribe send a blank email to leave-aprssi-842K@lists.tapr.org

---

### 755. [aprssi] Message into aprsd stream

From: "Thomas M. Schaefer" <toms@inconnect.com>  
Date: Thu, 15 Jun 2000 12:12:13 -0600  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-91099-2000.06.15-13.14.44--lyris.aprssi@lists.tapr.org>  
Rendered body type: text/plain  
  
If I connect to the msg only port, can I also send a message out through that port?  
  
Thanks,  
  
Tom NY4I

---

---  
You are currently subscribed to aprssi as: lyris.aprssi@tapr.org  
To unsubscribe send a blank email to leave-aprssi-842K@lists.tapr.org

---

### 756. [aprssi] THANKS for D700 info!

From: Greg Higgins <gregh@onramp.net>  
Date: Thu, 15 Jun 2000 13:37:07 -0500  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-91104-2000.06.15-13.37.09--lyris.aprssi@lists.tapr.org>  
Rendered body type: text/plain  
  
Thanks to all that have responded to my questions this morning! May everyone have as much fun!  
  
Greg Higgins  
KB5GLV  
  
---  
You are currently subscribed to aprssi as: lyris.aprssi@tapr.org  
To unsubscribe send a blank email to leave-aprssi-842K@lists.tapr.org

---

### 757. [aprssi] Wanted: Used Garmin III+; D700

From: Ralph Milnes <milnes@openix.com>  
Date: Thu, 15 Jun 2000 14:41:04 -0400  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-91108-2000.06.15-13.44.44--lyris.aprssi@lists.tapr.org>  
Rendered body type: text/plain  
  
In the off chance that someone is trying to unload either of these...  
I'm interested:  
  
Kenwood D700  
Garmin III+  
  
Ralph, KC2RLM  
  
---  
You are currently subscribed to aprssi as: lyris.aprssi@tapr.org  
To unsubscribe send a blank email to leave-aprssi-842K@lists.tapr.org

---

### 758. [aprssi] Re: Message into aprsd stream

From: Dale Heatherington <dale@wa4dsy.net>  
Date: Thu, 15 Jun 2000 16:00:43 -0400  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-91120-2000.06.15-15.08.31--lyris.aprssi@lists.tapr.org>  
Rendered body type: text/plain



All ports accept input data. However, the output data is different for each port.

On Thu, 15 Jun 2000, you wrote:

> If I connect to the msg only port, can I also send a message out through  
> that port?

>

> Thanks,

>

> Tom NY4I

>

>

> ---

> You are currently subscribed to aprssig as: aprs@wa4dsy.net

> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

--

Dale Heatherington

dale@wa4dsy.net

Web Page <http://www.wa4dsy.net>

Sent by KMail for Linux

---

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

---

## 759. [aprssig] FW: Follow up

From: Bill Diaz <billdiaz@megsinet.net>

Date: Thu, 15 Jun 2000 17:54:01 -0500

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Message-ID: <LYR842-91144-2000.06.15-17.57.36--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

FYI, Pharos appears to be alive and well.

Bill KC9XG

-----Original Message-----

From: Angela Child [SMTP:angela.child@pharosgps.com]

Sent: Thursday, June 15, 2000 5:51 PM

To: billdiaz@megsinet.net

Subject: Follow up

Hello,

My name is Angela Child and I have just been hired as the new office manager at Pharos. As part of my duties, I'd like to just follow up on some leads we have recently received. Our company is quickly expanding and we have just moved our corporate headquarters, so we may have been hard to reach in the last few weeks as our server was down for a couple of days and our phone system was turned off during the move. Now that we are completely back on line and ready to expand, I'd like to take this time to ask you if you have received all the information about our products that you have desired and if so, can I do anything to be of more assistance. I can gladly put an order through for you. Please let

me know if I can send you any more information or if you'd like to order

any units, and if you already have received units, if you are happy with

our product thus far.

Thank you very much for your time! I hope to hear from you soon.

Angela Child

---

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---

## 760. [aprssig] Re: OT: Whither is TAPR?

From: John Ackermann <jra@febo.com>

Date: Thu, 15 Jun 2000 21:10:54 -0300

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Message-ID: <LYR842-91155-2000.06.15-20.14.28--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

> Forgive my departure from APRS, but the TAPR web page updates seem to have  
> halted sometime in early May. Specifically, Newsline updates have ceased. Up  
> until May, it seemed to be updated regularly.  
>  
> What's up?  
>  
> Thanks  
>  
> jbl  
> w9jbl

We're undergoing some shifts in responsibility, and the Newsline updates inadvertently got dropped. They should be starting again in the next week or so, and we hope to keep current from now on.

73,  
John N8UR  
VP, TAPR  
jra@febo.com

--  
John Ackermann N8UR  
Dayton, Ohio, USA  
jra@febo.com -- <http://www.febo.com>

-----BEGIN PGP PUBLIC KEY BLOCK-----  
Version: 2.6.3a

mQBtAzgI9hgAAEDAMiMQDZTVVuVIS0AscJ0Wy63oK4+Q5xvtxbX/ZoG1qC0uYDI  
Fph4/RqL9vVEItWBy6ISk+zbkATzPgy84nrI7+GBtld4F9DoHWARQXjC1I8cFZjY  
TSe16ffq0/balukLnQAFebQlSm9obiBSLiBBY2tlcm1hbm4gTjhVUiA8anJhQGZl  
Ym8uY29tPokAdQMFEEdgI9hjq0/balukLnQEBtYIC/AxJ2RqT0/9TqY8JGEkPx2sw  
+W5Z6Tu4UI654t9diGdCcIEPjOG1qUvwH2Xop0Yj9QGoM4NnHIw6qUSN5VH7hHKA  
bGnpuTxinuW/gKaI3bt2MC8QZZq0gy2de269071E2A==  
=UHWL  
-----END PGP PUBLIC KEY BLOCK-----

---  
You are currently subscribed to aprssig as: [lyris.aprssi@tapr.org](mailto:lyris.aprssi@tapr.org)  
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---

## 761. [aprssi] AFilter117.zip

From: Bill Diaz <[billdiaz@megsinet.net](mailto:billdiaz@megsinet.net)>  
Date: Thu, 15 Jun 2000 20:22:28 -0500  
To: "TAPR APRS Special Interest Group" <[aprssi@lists.tapr.org](mailto:aprssi@lists.tapr.org)>  
Message-ID: <LYR842-91159-2000.06.15-20.26.05--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

AFilter 1.17 is available at <ftp://ftp.billdiaz.dynip.com/outgoing> when I am online. Bandwidth is limited.  
You can also try <http://www.cyberhighway.net/~tateb>

New features include the ability to log data from a specified call sign regardless of filter settings, MicE logging, improved error reporting, and miscellaneous fixes.

Bill KC9XG

---  
You are currently subscribed to aprssi as: [lyris.aprssi@tapr.org](mailto:lyris.aprssi@tapr.org)  
To unsubscribe send a blank email to [leave-aprssi-842K@lists.tapr.org](mailto:leave-aprssi-842K@lists.tapr.org)

---

## 762. [aprssi] What are the differences between location and message transmissions?

From: Doug Rich <[doug@the-one.com](mailto:doug@the-one.com)>  
Date: Thu, 15 Jun 2000 19:25:43 -0600  
To: "TAPR APRS Special Interest Group" <[aprssi@lists.tapr.org](mailto:aprssi@lists.tapr.org)>  
Message-ID: <LYR842-91162-2000.06.15-20.34.17--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Working with a bicycle event this last week we found a significant difference between the coverage of tracked locations and messages. Tracked positions almost always were received and the signal had to be significantly improved to be received. What is the reason??

Thanks  
Doug

Doug KD6GCL also kd6gcl@arrl.net

---

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### 763. [aprssig] Re: WinAPRS problems with callsign lookup?

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Thu, 15 Jun 2000 22:52:35 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-91175-2000.06.15-23.56.56--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 11:11 AM 3/31/00 -0600, hasan schiers blasted the following out into the ether:  
><snip>  
>Who knows? I think the best solution is to download the new files and create  
>your new index, because the old database always crashed on some calls and  
>brought the entire program down with it. 73

HOLY SMOKES! I just started downloading the file, and it's grown to 44 MB!!!

7 3  
Earl

Earl Needham, KD5XB <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico DM84jk N34d 25.446m W103d 12.700m (or so)  
PGP Key ID 0x00BF1A39

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

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### 764. [aprssig] Re: WinAPRS problems with callsign lookup?

From: Steve Bragg <[steveb@c2-tech.com](mailto:steveb@c2-tech.com)>  
Date: Fri, 16 Jun 2000 00:06:10 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-91190-2000.06.16-00.07.13--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Earl Needham wrote:

> HOLY SMOKES! I just started downloading the [FCC Database] file, and it's grown to  
> 44 MB!!!

Uh-oh. We may have recruited \*too many\* new hams / new APRSers the last two months... <grin>

73,

Steve KA9MVA

---

```

  / / / / / | / _ \ / / / / / | / / / |
 / , < / / | / / _ / / / / | / / / |
 / / | / _ | \ , / / / / | / / _ |
 / / | _ / | _ / / / / | _ / / |
=====
```

Steve Bragg KA9MVA [ka9mva@qsl.net](mailto:ka9mva@qsl.net) ICQ:29816109  
HamHUD APRS Mobile Terminal: [www.qsl.net/ka9mva/hamhud](http://www.qsl.net/ka9mva/hamhud)  
Owasso, Oklahoma, USA  
Owasso Amateur Radio Club [www.qsl.net/oarc](http://www.qsl.net/oarc)  
FIND ME WITH APRS! <http://map.findu.com/ka9mva-9>

"#define QUESTION ((2b) || !(2b))"  
- Shakespeare

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### 765. [aprssig] second.aprs.net outage

From: Greg Noneman <greg@clubnet.net>  
Date: Thu, 15 Jun 2000 22:21:42 -0700  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-91196-2000.06.16-00.25.50--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The secondary APRServe server (second.aprs.net [social.aprs.net]) will moving sites and will be unavailable until approximately 3:00 pm Pacific time (2200z) on Friday June 16. Estimated availability assumes that the the move can be completed and that the server can be linked to the primary machine in the given period.

Southern California users will also notice the absence of the N6EX-3 IGate during this downtime. I will attempt to get the IGate operational in the same timeframe, however it is possible that the RF configuration may take additional time.

The server/IGate is being moved to a site near the Los Angeles airport (LAX).

I will post another message on the SIG when service has been restored. Sorry for any inconvenience.

Greg Noneman  
WB6ZSU

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## 766. [aprssid] KamPlus problem

From: Jamie Hutches <kd5gob@ipa.net>  
Date: Fri, 16 Jun 2000 00:54:22 -0500  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-91199-2000.06.16-00.58.07--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hello all, I am new and I am trying to run WinAPrs with my KamPlus. Problem is I don't want HF to transmit at all. but the dual port TNC setting seems to make it transmit on VHF and HF simultaneously. Is there any ways to disable the HF side or turn it off to APRS? Also, i can hear a big signal from a local digi on APRS and my terminal software will decode the packet, but WinAPrs pretends it didn't hear it. Has anyone has this problem or is there a setting I missed?

Thanks, Jamie  
KD5G0B

---

## 767. [aprssid] Not exactly APRS, but...

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Fri, 16 Jun 2000 01:42:48 -0500  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-91201-2000.06.16-01.46.20--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I'm back! From Malaysia, that is. Wonderful country, nice people, good eats. What more can I say? Plus my brother is coming back to the US with a wonderful bride. <http://members.xoom.com/tingjohnny/>

Anyhow, I did not find much in the way of Amateur Radio in the country, but I may not have been looking in the right place. And I was kinda rushing around the place. What I did notice was that EVERYONE had a cell phone of some sort. Malaysians may not have AC or indoor plumbing, but they do have wireless communications options out the wazoo. I also saw some incredible consumer electronics that would make an American technophile drool. Tiny (and large) flat-screen 16x9 aspect ratio world (NTSC/PAL/SECAM) TV's and DVD/MP3/VCD/CDV all-in-one players of all flavors, some no bigger than a cigar box. The only shortwave equipment I found in shops was the standard Sony, Panasonic/National Brand, and Grundig stuff. I didn't even see a scanner. Most shopkeepers didn't seem to know much about Amateur Radio.

I should have brought my TH-D7 and scanner along, but didn't want to hassle with Customs/Airport Security. It turns out I must not fit any smuggling profiles, because I ran into no hassles anywhere... EXCEPT in the LA International Airport Terminal on my outbound flight, where I was hassled for about 10 minutes by airport security, who insisted I had a "Leatherman" in my carry-on (which I didn't). They all but treated me as an international terrorist and even asked me to "step away from the bag..." after they asked to search it. They had a very bad attitude and I hate to say it, but I was being hassled because of my race, and airport security

guards have a badge mentality. After not being able to find a Leatherman, I did point out I had a Swiss Army Knife (which was quite handy in Malaysia). They had to clear that with a supervisor. Sheesh! When I got on the Air Malaysia 747-400, I noticed one of our Stewards had a Leatherman on his belt... :) I went thru Taipei, Malaysia, and Tokyo with nary a second glance from Immigration/Customs/Security officials. The only place I ran into ARMED people with a bad attitude was in the US... I even took a picture of an ROC policeman outside the Chaing Kai-shek Airport. The only armed Malaysian I saw was a uniformed guy in the Pyramid Mall shouldering a shotgun as tall as he was! (Malaysians are generally pretty short) Cool Mall, BTW - <http://mitv.net/pyramid/index.htm> I recommend the Pizza Rendang at the Pizza Hut there. It's an interesting Halal "interpretation" of a pizza.

We avoided restaurants mostly and ate at food courts where we could get non-Halal food like pork and beer. I highly recommend the grilled stingray if you can find it. I survived for two weeks drinking mostly beer and Nescafe Peng (iced coffee). The Nescafe mostly being served in plastic bags with a straw and tied with twine that formed a looped handle. This is an amazingly good way to serve beverages, as 1000 bags take up as much space stored as ONE jumbo drink cup. Even the Malaysians don't drink the tap water...

Beer was fine as Ting Fung was our designated driver, since they drive on the wrong side of the road there. I spent more time in a Proton (Malaysian National Car Project) than I did in the 747's... If you want to impress a Malaysian woman don't buy a sportscar, get a Pajero! :)

<http://4wd.sofcom.com/Mitsubishi/Pajero.html>

The Kuala Lumpur Airport has to be the most modern in the world. It was absolutely amazing. It was also my first encounter with a Moslem bathroom... The runways are designed for hypersonic transports, and after about 20 hours in the air, I was wishing for that 90 minute LA to KL flight, especially because my butt is sized for 1st class seats, but my wallet is only big enough for the economy section. The Malaysian Air 747's had an APRS like system that continuously updated our position over the Pacific, our height, our speed, and the relative direction to Mecca. Neat. The BEST thing I brought on the trip was a set of Aiwa Noise Canceling Stereo Headphones, which I purchased at Best Buy, for about \$50 before the trip. They even came with an airline adaptor. These things really work at knocking down persistent background noises and should be a handy addition to the ham shack. A real godsend on a very very long flight.

In Penang, I rode the FUNICULAR to the top of Penang Hill, which was my only request while in Malaysia. Mainly because I have a mad passion for funiculars (I've ridden several) and it was a good excuse to go to the top of a really big hill and photograph some communications towers. Bad timing on our part. First we were there on the second day of school holiday, there were Olympic trials going on in Georgetown with attendees from 29 countries, AND it was the King's Birthday. What a Zoo. I got some good pictures of the towers though and I guess I'll have to post them to a web site. Here's a picture of the funicular.

<http://www.mit.jyu.fi/~tt/photo/seasia1997/pictures/gtown18.html>

All I can say is that it was a good spot for a digipeater.

Penang is famous for it's technology row. Some inhabitants: SMC, Seagate, Intel (Itanium plant), Quantum, and about a dozen others. Gateway bucked the trend, it's big plant is in the historic city of Malacca. My brother's new wife used to be a production manager for Seagate at their Penang Facility.

I was sad to leave, Ting Fung's family is wonderful, her two younger (single) sisters were absolute dolls, and I really didn't want to go back to work. All I can say is I would love to live in Malaysia at least for a few years...and there would be APRS there then. I think a reciprocal license there costs something like \$3.00 US for 3 months... you must be a General Class licensee or better.

If you ever get a chance to go to Malaysia, do it. It's a very neat country.

73,

Mark  
KC7BXS

PS: if there are any people in Malaysia who monitor this SIG, please contact me via private email...

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## 768. [aprssig] Gateway computers for APRS

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Fri, 16 Jun 2000 02:07:52 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91204-2000.06.16-02.11.39--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Although I'm a little leery posting this here, I'm going to do it anyway, and maybe I can save someone a few bucks.

My employer is offering a 10% discount on the purchase of any new Gateway consumer branded PC through June 30, 2000 provided the person has some special information from me at the time of purchase. I will not post that info here, but if you are interested just email me PRIVATELY and I'll give you the information. I believe there is a limit of one purchase per household.

Again, if you are in the market for a new computer and are considering Gateway, and will be purchasing on or before June 30, 2000, please email me and you will be given information on how to get a 10% discount on the purchase price of a computer. This is not a gimmick, it's a legitimate offer for the friends and relatives of badged Gateway Employees...and I consider all of you as friends... :)

The 10% discount only applies to the purchase of a computer system and is not inclusive of any peripherals or add-ons.

It is only good for Gateway Select, Essential, and Performance desktop series systems as well as Astros, Profile 2.0's, and laptops.

The discount is NOT valid for E-series systems, or ALR or Gateway branded servers.

I know this looks like SPAM to a lot of people. I make no money from this offer, and merely posted it in a sincere attempt at saving someone some \$\$.

73,

Mark  
KC7BXS

---

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## 769. [aprssig] Re: findu.com - drop impossible callsigns

From: "Brent Hildebrand" <bhildebrand@earthlink.net>  
Date: Fri, 16 Jun 2000 00:19:30 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91207-2000.06.16-02.23.01--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

\*209.18.20.63:KB8SSH <----> W8MAP-4>ID,RELAY\*,WIDE/V:W8MAP-4/R RELAY/D WIDE/N  
24.6.61.189:KE4KUR-2 <----> unproto APW227 via WIDE,WIDE,TRACE  
\*24.6.61.189:KE4KUR-2 <----> unproto APW227 via WIDE,WIDE,TRACE  
24.6.61.189:KE4KUR-2 <----> conv  
\*24.6.61.189:KE4KUR-2 <----> conv  
24.6.61.189:KE4KUR-2 <----> =3249.33N/07952.31WIPHG2130/WinAPRS 2.4.3 IGATE in the Lowcountry -SCCHAMT.  
PLEA-227-<520>  
\*24.6.61.189:KE4KUR-2 <----> =3249.33N/07952.31WIPHG2130/WinAPRS 2.4.3 IGATE in the Lowcountry -SCCHAMT.  
PLEA-227-<520>  
24.6.61.189:KE4KUR-2 <----> unproto APW227 via WA4USN-5, WIDE3-3  
\*24.26.70.138:KA2TOC <---->  
KF4KUL>APRX46/V:@160745z2749.64N/08239.01W\_163/004g005t080r000p000...h11b10144d  
24.26.70.138:KA2TOC <----> U2k  
\*24.2.94.117:NS8E <----> KC8LCP-13>BEACON,KA9KIM,AA8JR,K1DE-5\*,WIDE/V:!4246.52N/08612.73W\_WX4 Loc Holland  
State Park  
24.6.61.189:KE4KUR-2 <----> unproto APW227 via WA4USN-5,KE4KUR-3,WIDE,WIDE  
\*24.6.61.189:KE4KUR-2 <----> unproto APW227 via WA4USN-5,KE4KUR-3,WIDE,WIDE  
24.6.61.189:KE4KUR-2 <----> conv  
\*24.6.61.189:KE4KUR-2 <----> conv  
24.6.61.189:KE4KUR-2 <----> =3249.33N/07952.31WIPHG2130/WinAPRS 2.4.3 IGATE in the Lowcountry -SCCHAMT.  
PLEA-227-<520>

```

*24.6.61.189:KE4KUR-2 <----> =3249.33N/07952.31WIPHG2130/WinAPRS 2.4.3 IGATE in the Lowcountry -SCCHAMT.
PLEA-227-<520>
24.6.61.189:KE4KUR-2 <----> unproto APW227 via WA4USN-5, WIDE3-3
*205.148.236.197:W1GRE <----> KD4HTW-9>APRS,W4NHV-9*,WIDE3-3/2:13411.46NN07950.44W#PHG6480 WIDEN-N
FLORENCE, SC !
63.27.216.129:KD5HAD <----> ?EH
*212.41.36.194:MB7UIV <----> M1DTA>APRS:M5AEJ :morning simon have anice day{7
63.27.216.129:KD5HAD <---->
cmd:KD5IGV-14>APRS,WIDE3-2:$GPRMC,063820,A,3150.5271,N,10231.0520,W,000.0,079.1,160600,008.3,E*6E
*24.26.70.138:KA2TOC <----> KF4TLJ-9>APRS/V:!2801.57NN08208.77W/ Steve's mobile relay for
emergency/special
24.26.70.138:KA2TOC <----> use
*193.137.221.244:CS1SEL <----> Massama - PORTUGAL
193.137.221.244:CS1SEL <----> AX.25 pBBS = CT1DBH-1 / Node = CT1DBH-8
*12.23.104.112:KJ7AZ <----> KJ7AZ>APW247,TCPIP*:=4147.25N/10714.56WIPHG2150/WinAPRS 2.4.7 -WYCARRAWLINS
-247-<530>
12.23.104.112:KJ7AZ <----> =4147.25N/10714.56WIPHG2150/WinAPRS 2.4.7 -WYCARRAWLINS -247-<530>
*24.26.70.138:KA2TOC <----> KS4NS-3>APRS/V:!2636.87NN08152.40W#PHG7460/GULF COAST AREA REPEATER CLUB APRS
DI
24.26.70.138:KA2TOC <----> GI R/W/T
*24.26.70.138:KA2TOC <---->
KF4KUL>APRX46/V:@160748z2749.64N/08239.01W_156/004g005t080r000p000...h11b10144d
24.26.70.138:KA2TOC <----> U2k
*24.26.70.138:KA2TOC <----> KF4TLJ>APS199/V:=2801.55N/08208.75W-PHG7050 Steve in Plant City, FL
semrrt@aol
24.26.70.138:KA2TOC <----> .com
*24.26.70.138:KA2TOC <----> WB2WPA-4>APW244/V:=2607.65N/08145.96W#PHG7460/Collier EOC - Station UNMANNED!
-F
24.26.70.138:KA2TOC <----> LCOLNAPLES -244-<530>
*24.26.70.138:KA2TOC <---->
KA2TOC-9>GPSPP/V:$GPRMC,064213,A,2807.404,N,08222.262,W,000.0,360.0,160600,004.
224.26.70.138:KA2TOC <----> ,W*77
*24.26.70.138:KA2TOC <----> KE4UVQ>APW247/V:=2944.45N/08214.21W-PHG6270/Alachua County SKYWARN
-FLALAGAINESV
24.26.70.138:KA2TOC <----> I-247-<530>
*193.137.221.244:CS1SEL <----> CT1NA>ID:
193.137.221.244:CS1SEL <----> JNOS (TCP/IP) ----- SYSTEM SERVER
*193.137.221.244:CS1SEL <----> JNOS (TCP/IP) ----- SYSTEM SERVER
193.137.221.244:CS1SEL <----> =====
*193.137.221.244:CS1SEL <----> =====
193.137.221.244:CS1SEL <----> CT1NA.AMPR.ORG. ----- IP-44.158.27.48
*24.26.70.138:KA2TOC <---->
KF4KUL>APRX46/V:@160751z2749.64N/08239.01W_156/002g005t080r000p000...h11b10143d
24.26.70.138:KA2TOC <----> U2k
*24.26.70.138:KA2TOC <----> KR4YL-10>APRS/V:!2756.00NN08243.19W#PHG5460 Pinellas W-R-FL Clearwater, FL
kr4yl
24.26.70.138:KA2TOC <----> @arrl.net
*24.26.70.138:KA2TOC <----> NA4V-3>APRDA4/V;:F029 _160643z5454.05S\12153.66WS197/999/145.85 +2/435.91
-7
24.26.70.138:KA2TOC <----> /R=09868/mode-J
*165.230.133.74:WU2Z <----> W3PHL-3>APRS,K3ATI-11*,WIDE,TRACE:!4005.04NT07529.68W#PHG5540/PARA-Valley
Forge-WIDE Digipeater
208.222.150.140:W0IBM <----> -7/R=09868/mode-J
*24.26.70.138:KA2TOC <---->
KF4KUL>APRX46/V:@160752z2749.64N/08239.01W_181/004g006t080r000p000...h10b10143d
24.26.70.138:KA2TOC <----> U2k
*24.26.70.138:KA2TOC <----> KR4YL>APW245/V:=2752.85N/08246.00W-PHG1141/Paul in Largo, FL - kr4yl@arrl.net
IC
24.26.70.138:KA2TOC <----> Q#605259 -FLPINLARGO -245-<530>
*208.222.150.140:W0IBM <----> NA0R>APW245,N0JUP-1,W0MXW-1*,WIDE:>291425 Location: Johnston,Ia
12.23.104.112:KJ7AZ <----> =4147.25N/10714.56WIPHG2150/WinAPRS 2.4.7 -WYCARRAWLINS -247-<530>
*159.19.146.64:KF4ERV-10 <----> N8GWK>APW245,K4DMU-10*,WIDE7-5:=3900.00N/08400.00WZPHG0000/WinAPRS 2.4.5
-245-<520>
172.155.47.230:K5HAB-1 <----> ECHO was OFF
*207.50.44.115:KB5WIO <----> KB5WIO>APW241,TCPIP*:_06160645c154s012g021t076r000p000P000h57b10019wU2K
165.230.133.74:WU2Z <----> _06160645c328s000g001t068r000p000P000h99b10103mDAV
*159.19.146.64:KF4ERV-10 <---->
WB9TLH-10>APRS,K4DMU-2*,WIDE5-5:_06160642c000s000g000t070r000p000P000h91b10073uU2K
24.26.70.138:KA2TOC <----> IN-147A -FLPINSEMINOLE-246-<630>
*24.26.70.138:KA2TOC <----> N2MNC-4>APZ033/V:=2751.83N/08243.49W_002/002g002t079r000P000p000h85b10130zRSW
wa4dsy.net:IGATE <----> &PHG9300/Boston HF GATEway doc@mitre.org
*24.26.70.138:KA2TOC <----> WB4PBF-2>APW242/V:=2746.20N/08238.41W_PHG2338/Downtown
St.Pete-PinellasSkywarn
24.26.70.138:KA2TOC <----> wb4pbf@arrl.net -FLPINST.PETER-242-<530>
*24.26.70.138:KA2TOC <---->
KF4KUL>APRX46/V:@160755z2749.64N/08239.01W_137/001g004t080r000p000...h10b10143d
24.26.70.138:KA2TOC <----> U2k
*208.61.144.183:KD4BBM <----> KD4BBM>APW246,TCPIP*:=2554.43N/08020.18WIPHG5030/Miami I-Gate -FLDADMIAMI
LA-246-<630>

```

208.61.144.183:KD4BBM <----> =2554.43N/08020.18WIPHG5030/Miami I-Gate -FLDADMIAMI LA-246-<630>  
 \*24.26.70.138:KA2TOC <----> KA2TOC>APW246,TCPIP\*:=2803.20N/08232.36W-PHG7130/WinAPRS 2.4.0 -FLHILTAMPA  
 -246-<530>  
 24.26.70.138:KA2TOC <----> =2803.20N/08232.36W-PHG7130/WinAPRS 2.4.0 -FLHILTAMPA -246-<530>  
 165.230.133.74:WU2Z <----> \_06160649c328s000g001t069r000p000h99b10103mDAV  
 \*12.23.104.112:KJ7AZ <----> KJ7AZ>APW247,TCPIP\*:=4147.25N/10714.56WIPHG2150/WinAPRS 2.4.7 -WYCARRAWLINS  
 -247-<530>  
 12.23.104.112:KJ7AZ <----> =4147.25N/10714.56WIPHG2150/WinAPRS 2.4.7 -WYCARRAWLINS -247-<530>  
 \*209.18.20.63:KB8SSH <----> N9DE>APW243,KG9CN-10,WIDE\*/V:=3937.15N/08606.10W/PHG9170/WinAPRS 2.4.3; Bob  
 Greenwood -INJOHGREENW00-243-<520>  
 172.155.47.230:K5HAB-1 <----> ECHO was OFF  
 \*24.26.70.138:KA2TOC <---->  
 KF4KUL>APRX46/V:@160758z2749.64N/08239.01W\_139/004g005t080r000p000...h09b10143d  
 24.26.70.138:KA2TOC <----> U2k

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## 770. [aprssig] Re: D700 and "Flashing GPS"

From: "Denis Barton" <wb8skp@upmail.com>  
 Date: Fri, 16 Jun 2000 08:25:13 -0400  
 To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
 Message-ID: <LYR842-91227-2000.06.16-07.33.52--lyris.aprssig#tapr.org@lists.tapr.org>  
 Rendered body type: text/plain

Hello Greg,

That is the way it should work. Flashing "GPS" tells you that the GPS and  
 D700  
 are talking. I have a RM hooked up to my D700 and they work great.

73, Denis WB8SKP

---

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## 771. [aprssig] long journey

From: "Roger Rockwell" <wb4tr@usa.net>  
 Date: Fri, 16 Jun 2000 8:4:20  
 To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
 Message-ID: <LYR842-91228-2000.06.16-08.07.43--lyris.aprssig#tapr.org@lists.tapr.org>  
 Rendered body type: text/plain

Day 3

Glade to report the SCOOTER and Child doing well. Crossed into the great  
 state of Texas around 4PM. Stopped in Houston for night. Uploaded a  
 couple of pictures for the day. Plans are to get to Del Rio on Friday.

Boy there are really a lot of nice people out there. I have to stop about  
 every 1.5 hours for gas and always get well wishers and into a  
 conversation. Being a true HAM ham, I don't turn down much of a chance to  
 talk. Hi Hi. At one traffic light in a small town in Louisiana, I and and  
 a guy in a pickem up truck sat through three changes of the light  
 talking.

Stopped at the Yamaha Dealers in Orange and Beaumont, Tx. At both I was  
 overwhelmed with kindness. These people had know prior knowlege of this  
 trip. I was offered everything from driks to dinner. All I wanted was,  
 all the water I could drink. Now I know why they sell so many motorcycles,  
 they're really frindly.

Is find-u.com down? I have gotten several emails that attempts to access  
 page times out?

Looking to see all of you down the APRS log. 73Ds Roger

: Well the trip is on. After not much planning, our coast to coast cross  
 country trip on a 50cc motor scooter has started. I left the Atlantic  
 Ocean at Jacksonville, Fl on June 10 at 0645. Traveling US Hwy 90 west  
 bound. Destination, Cabrillo National Monument on the Pacific Ocean west  
 of  
 San Diego, Calif.



Showing off HAM radio and vehicle tracking. See maps, details, pictures at the following <http://www.qsl.net/k1pns/>

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## 772. [aprssig] Re: What are the differences between location and message transmissions?

From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
Date: Fri, 16 Jun 2000 09:23:35 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-91232-2000.06.16-08.27.02--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> Working with a bicycle event this last week we found a significant  
> difference between the coverage of tracked locations and messages. Tracked  
> positions almost always were received and the signal had to be  
> significantly improved [for messages] to be received.

What is the reason??

ANSWER: ACKS!

1) POSITIONS are transmitted repeatedly forever  
2) Your Message rate (inD7/700) was 1 per minute for 5 tries only  
3) The problem is ACKS.  
ACKS suffer the same poor probabilities of receipt as the outgoing message. Thus the success is P\*SQUARED. So if your chance of getting a message through is 50%, then the chance of getting the ACK is 25%. APRSdos and some of the other APRS versions make up for this by redundantly transmitting ACKS to improve the overall throughput. (And this redundant ack is delayed 30 seconds to make sure it is not filtered out by a WIDEN-N digi).

NOTE: APRS relied on the multiple copies of messages to help assure that a few multiple ACKS were generated in return. In WIDEN-N networks, ALL DUPES ARE FILTERED OUT. Thus your chances of getting back an ACK in WIDEN-N or TRACE network are poor. Thus message success is much less in a "clean-no-dupe" network, than it was in the early redundant-dupe networks on which APRS was designed.

To overcome these problems, APRSdos and APRS+SA and maybe UIview not only double up with the 30 second delayed ACK but also now include ACKS embedded in messages. So if you are in a dialog with someone, then the return ACKS are being forced from both ends. This drastically improves throughput in a dialog. Messages really fly!

In Summary, MESSAGES are like NORMAL packet, and suffer the same loss in efficiency due to the ACK problem as does connected packet. But POSITIONS show you the power of APRS in using UI broadcast for drastically improving throughput.

And the new "reply-ack" mechanism drastically minimizes the ACK problem when implemented in compatible versions of APRS.

de WB4APR, Bob

---

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## 773. [aprssig] APRSdos digi?

From: "n1iic Jason Greene" <[n1iic@qsl.net](mailto:n1iic@qsl.net)>  
Date: Fri, 16 Jun 2000 09:38:18 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-91235-2000.06.16-08.42.31--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi, Bob. Does the dos version handle kiss mode, and being a widen-n digi? I don't remember seeing anything about it.  
Could you please also tell me who the "moderator" is for the SIG?

Thanks  
Jason n1iic

---

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## 774. [aprssig] Re: What are the differences between location and message transmissions?

From: "Sadowski, Allan" <allan.sadowski@ncshp.org>  
Date: Fri, 16 Jun 2000 10:36:48 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91242-2000.06.16-09.36.07--lyris.aprssig@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bob

Would it not be fair to say that sending messages via UI frames was a compromise?  
The more appropriate method for sending messages (and files) is via standard connected AX.25 frames...

I know of several "standard" packet "networks" that have no problem with message and file transfer.. and in fact do it on a regular basis... but it's via CONNECTED packets rather than UI packets...

It would appear that the proper tool for the job of sending "critical" data is NOT UI packets but rather to use the correct tool.... connected packets...

The "advantage" (if there really is one) with using UI packets is that you don't have to go to the right tool (software other than current "APRS" software... and changing to the frequency that has the connected network (145.01, .03, .05, .07, .09 - what is appropriate for that locale for connected digi networks)....

Maybe "APRS" software ought to be revised to accomodate the use of CONNECTED packet communications in addition to UI broadcasts....

ALOHA  
AH6LS

> -----Original Message-----  
> From: Bob Bruninga [SMTP:bruninga@nadn.navy.mil]  
> Sent: Friday, June 16, 2000 9:24 AM  
> To: TAPR APRS Special Interest Group  
> Cc: TAPR APRS Special Interest Group  
> Subject: [aprssig] Re: What are the differences between location and  
> message transmissions?  
>  
> > Working with a bicycle event this last week we found a significant  
> > difference between the coverage of tracked locations and messages.  
> > Tracked  
> > positions almost always were received and the signal had to be  
> > significantly improved [for messages] to be received.  
>  
> What is the reason??  
>  
> ANSWER: ACKS!  
>  
> 1) POSITIONS are transmitted repeatedly forever  
> 2) Your Message rate (inD7/700) was 1 per minute for 5 tries only  
> 3) The problem is ACKS.  
> ACKS suffer the same poor probabilities of receipt as the outgoing  
> message. THus the success is P\*SQUARED. SO if your chance of  
> getting a message through is 50%, then the chance of getting the  
> ACK is 25%. APRSdos and some of the other APRS versions make up  
> for this by redundantly transmitting ACKS to improve the overall  
> throughput. (And this redundant ack is delayed 30 seconds to  
> make sure it is not filtered out by a WIDEn-N digi).  
>  
> NOTE: APRS relied on the multiple copies of messages to help assure  
> that a few multiple ACKS were generated in return. In WIDEn-N  
> networks, ALL DUPES ARE FILTERED OUT. THus your chances of getting  
> back an ACK in WIDEn-N or TRACE network are poor. THus message  
> success is much less in a "clean-no-dupe" network, than it was in

> the early redundant-dupe networks on which APRS was designed.  
>  
> To overcome these problems, APRSdos and APRS+SA and maybe UIview  
> not only double up with the 30 second delayed ACK but also now include  
> ACKS embedded in messages. So if you are in a dialog with someone,  
> then the return ACKS are being forced from both ends. This  
> drastically improves throughput in a dialog. Messages really fly!  
>  
> In Summary, MESSAGES are like NORMAL packet, and suffer the same loss in  
> efficiency due to the ACK problem as does connected packet. But POSITIONS  
> show you the power of APRS in using UI broadcast for drastically improving  
> throughput.  
>  
> And the new "reply-ack" mechanism drastically minimizes the ACK problem  
> when implemented in compatible versions of APRS.  
>  
> de WB4APR, Bob  
>  
>

---

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## 775. [aprssig] Citadel PC and Linux

From: "Tim Russell" <timruss@home.com>  
Date: Fri, 16 Jun 2000 09:33:52 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91243-2000.06.16-09.37.51--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hello all,

On the off chance that anyone has gotten Linux to boot on a Citadel  
Touchscreen PC using a PCMCIA flash card, please contact me - I'm having  
troubles getting Lilo to work and would like to compare notes.

In the meantime I'll keep hacking at it and make sure it gets posted to  
the Citadel website if/when I get it solved.

Thanks and 73, Tim, KØRUS

---

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---

## 776. [aprssig] Terrible day for the internet network...

From: Steve Dimse <k4hg@tapr.org>  
Date: Fri, 16 Jun 2000 10:51:30 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91246-2000.06.16-09.55.07--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Greg is moving the social server today. In preparation I had moved the  
map.aprs.net traffic to findu.com. At midnight last night the Telocity  
DSL service to South Florida went down, so findu is unreachable.  
According to Telocity, no ETA is available for repair.

I have again redirected the map.aprs.net traffic, this time to the  
primary server. However the timeout on the old DNS info was set at 24 for  
hours, so some of you may not be able to use this for the next day.

Sorry for the inconvenience...

Steve K4HG

---

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---

## 777. [aprssig] RE: APRSdos digi?

From: "Henk de Groot (EMN)" <Henk.de.Groot@emn.ericsson.se>  
Date: Fri, 16 Jun 2000 16:30:31 +0200  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Cc: TAPR APRS Special Interest Group <aprssid@lists.tapr.org>  
Message-ID: <LYR842-91247-2000.06.16-09.56.28--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hello Jason,

> -----Original Message-----  
> Hi, Bob. Does the dos version handle kiss mode, and being a  
> widen-n digi? I  
> don't remember seeing anything about it.

If you are interested in up-to-date intelligent digipeater that runs on DOS on a KISS tnc you may want to have a look at DIGI\_NED. It is extreemly configurable but will run out of the box also after minor cnfiguration.

If you want a GUI also than you can't use it, but if you want a dedicated DIGI then this is wat you want. The manual explains how to set it up when using a KISS modem (you can also use dumb BayCom or BayPac modems and a lot more types).

You can navigate directly to:  
<http://www.homepages.hetnet.nl/~remko/software/diginedE.htm>

Sorry for the netscape users, the new pages give some problem, the webmaster is working on it.

Direct links to the software:

The DOS executable and related files:  
<http://www.homepages.hetnet.nl/~remko/files/Dnexe011.zip>

The source, needed for Linux use or if you want to look how it works, expand, ripp-off, find bugs etc:  
<http://www.homepages.hetnet.nl/~remko/files/Dnsrc011.zip>

I'm working on the next release which will contain Tiny Web Pages like functionality.

Kind regards,

Henk.

---

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---

## 778. [aprssid] SETTINGS FOR WIDE-N/TRACE-N DIGI

From: Gerry Paquette <ve2aw@amsat.org>  
Date: Fri, 16 Jun 2000 10:52:30 -0400  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-91249-2000.06.16-09.56.38--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I am in the process of setting up a Wide Area (N) digi in a remote location using a Kantronics KPC-3 Plus Version 8.3 TNC and would like to know if someone could give me some advice on the use of either the BUDLIST and/or SUPLIST commands. (I am really stuck on the synthax and in interpreting both of these commands)

What I am trying to achieve is to provide a wide area coverage in two specific directions (North and West) which are not covered by a neighboring digi (approx 25 miles apart) and yet would like to prevent all traffic routed through this particular digi from being digipeated by my new digi.

In other words, my aim is to extend APRS coverage in two particular directions and yet cut down on the number of retransmissions. Incidentally, I have used the settings which are detailed in a document which was produced by KA9VNV and further commented by several other hams.

Any help you can provide would be most appreciated. 73

--

G rard (Gerry) Paquette  
Canadian WinAPRS Support Site: <http://www.qsl.net/ve2aw/>  
WinAPRS maps of some regions in Canada: <ftp://ftp.qsl.net/pub/ve2aw/>

---

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## 779. [aprssig] The French Resistance

From: Bob Bruninga <bruninga@nadm.navy.mil>  
Date: Fri, 16 Jun 2000 11:27:54 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@tapr.org>, htapr@nadm.navy.mil  
Message-ID: <LYR842-91254-2000.06.16-10.31.57--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I think we have some misunderstandings in France. I post this here only so some of our European friends can see that they may have some work to do in gaining acceptance over there... Thanks to jdreifuss who found this and translated it.

By the way, this is NOT unique to Europe. We went through this same thing over here in the USA too, when APRS was new back in the 1993-95 time frame... I just thought you would be amused by seeing it anew... I removed all email addresses because I do not want to see any flames...

> ----- Original Message ----- [ translated by jdreifuss ]-----  
> From: G&N RUY <XXXXXXXXX>  
> To: [a news group in France]  
> Sent: Monday, April 03, 2000 9:14 PM  
> Subject: Re: La France en APRS sur ...[satellites]  
>  
> Good evening to all  
> I will respond in my own name.  
> The Facts:  
>  
> APRS is a Trade name by someone maybe TAPR or Bruninga. I do not know.  
> The promoter has been mounting an intense publicity campaign for the  
> past few months over the AMSAT-NA list to promote the Kenwood THD7  
> Radio, he never says to do it yourself and other interesting things  
> (Archives of AMSAT-NA messages (At least I believe)>  
  
> Kenwood was condemned in the USA to have attempted to sell commercial  
> material that operated in the 144 Mhz Band with the intent to pass 3rd  
> party traffic. , Meaning that it could be operated by Non Amateurs and  
> covered under amateur practices. The same Bruninga has a plan for  
> operations ... via Satellite.  
>  
> APRS is perfect for not only commercial vehicular operations and other,  
> it is also made for commercial practices.  
> I asked the question directly [to Bob], I do not need to comment, here  
> is the answer and this is my response.  
> -----  
> > On Wed, 29 Mar 2000, G&N RUY wrote:  
> > > Dear OM,  
> > > So far I didn't take the time to address APRS. Here, in Europe,  
> > > we have VERY STRONG suspicions that you are undertaking a  
> > > commercial use of amateur bands, your continuous support  
> > > (advertising ?) of kenwood, along with APRS, the interest of  
> > > which for radioamateurs remains to be determined, being not the  
> > > less demonstration. So, you would be kind to explain what are  
> > > your intentions and actions in that matter.  
> > > Sincerely.  
> > >  
> > > From: WB4APR  
> > > -Sorry, OM  
> > > -I love amateur radio and satellites and have been a ham for 38  
> > > -years. I am sorry that you are so suspicious of having fun with  
> > > -the hobby and looking for neat new applications for amateur radio.  
> > > -73's  
> > > -de WB4APR, Bob  
> > >  
> > My Conclusions:  
> > Bruninga has sold ... APRS ... to Kenwood, this serves as a test bed  
> > for commercial systems for which we can potentially loose our  
> > frequencies because of the lack of resources. He has already tried on  
> > the following [frequencies] 433, 1260, 2400, Blue toothe etc.  
> >  
> > The demonstrations were done on the ground to validate the process by  
> > innocent collaborators.  
> >  
> > Bruninga is currently pushing the utilization of FM [packet] Satellites  
> > to demonstate the concept again all with the help of innocent  
> > collaborators will to send their rectal temperature to the whole world  
> > with GPS precision in the P mode without regard to the normal operating  
> > modes of the satellites, he is taking advantage that no one will  
> > stop these incursions into normal operating practices.

>  
> I have chosen the following options [on] the utilization of APRS.  
> 1. APRS does not serve a purpose.  
> 2. Commercial exploitation.  
> Do whatever you want but my advice is that if you want to save our  
> frequencies, we should not be naïve and admit that time for  
> negotiations at WARC 2000 is at an end and to send people to WARC for  
> weeks on end and to hear them say that they were not there to discuss  
> the subject of Navigation via satellite and possibly loose on of our  
> bands, the most interesting is without doubt not a good method.  
>  
> The course in which Bruninga is engaged is dangerous...  
> So for the members of AMSAT are they cold or ???  
> -----  
> Ghislain RUY  
> F1HDD  
> SATEDU TEAM  
> -----

By the way? who is doing APRS on 433, 1260, 2400 and Bluetooth? <grin>  
Tell us all about it so we can play too...  
de WB4APR, Bob

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## 780. [aprssig] Re: APRSdos digi?

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Fri, 16 Jun 2000 11:29:45 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91255-2000.06.16-10.33.20--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Fri, 16 Jun 2000, nliic Jason Greene wrote:

> Hi, Bob. Does the dos version handle kiss mode, and being a widen-n digi? I  
> don't remember seeing anything about it.

No.

> Could you please also tell me who the "moderator" is for the SIG?

Stan Horzepa. He will see your email  
bob

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---

## 781. [aprssig] Re: SETTINGS FOR WIDE-N/TRACE-N DIGI

From: "Jeff Brenton" <jeffb@espi.com>  
Date: Fri, 16 Jun 2000 10:32:22 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91256-2000.06.16-10.36.43--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The SUPLIST and LLIST will NOT stop traffic the way you're hoping to,  
Gerry. They look at the SENDER, not the digipeater, for controlling what  
gets repeated. In fact, without computer assist, there are no methods to do  
it with the KPC-3.

WITH computer assist and something like DIGI\_NED running, you could  
implement rules that would handle the situation.

Jeff Brenton  
President,  
Engineered Software Products, Inc  
<http://espi.com>  
Questionable web page: <http://dididahdahdidit.com>  
Northern Illinois APRS Network: <http://nian.aprs.net>

My goal in life: To be remembered as someone who always

stated what should have been obvious to everyone in the first place.

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## 782. [aprssig] Re: The French Resistance

From: "Jeff Brenton" <[jeffb@espi.com](mailto:jeffb@espi.com)>  
Date: Fri, 16 Jun 2000 10:38:20 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-91257-2000.06.16-10.41.56--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Sounds like this person in France is against the legal reason for Ham Radio to exist in the U.S., i.e., for experimentation.

If developing something for an eventual commercial market is to be the criteria for banning something from ham radio frequencies, then they best give up FM, all packet modes, and SSB. Oh, I forgot... CW was used for commercial purposes... so it has to be banned, too! B-)

Jeff Brenton  
President,  
Engineered Software Products, Inc  
<http://espi.com>  
Questionable web page: <http://dididahdahdidit.com>  
Northern Illinois APRS Network: <http://nian.aprs.net>

My goal in life: To be remembered as someone who always stated what should have been obvious to everyone in the first place.

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## 783. [aprssig] RE: The French Resistance

From: "Jacques Voisin" <[jvoisin@evcom.net](mailto:jvoisin@evcom.net)>  
Date: Fri, 16 Jun 2000 11:58:38 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-91260-2000.06.16-11.00.00--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Well I am Frenchman living here in the States for 30 years, been a ham for 12 and enjoy every minute of it. I have many friends in France and none have the attitude of Ghislain Ruy, his call indicates that he is only allowed to operate on VHF/UHF the equivalent to our tech ticket. I have been a tech + until April 15 and now a General and I have nothing against Technicians on the contrary I have worked with many of them in ARES/RACES.

Ghislain seems to be like a group of old timers I met in Paris a few years back where I tried to introduce APRS, I would have had more interest if I tried to sell them a bar of soap. This is not to say that all ham in France are like that as one of my good friend David F1PNQ who visited me last year was very impressed by APRS and bought here a Kenwood D7 and enjoyed every minute of it while here but when he went back hit a brick wall trying to introduce APRS.

This is to Ghislain if he reads it: "Get a life and enjoy the hobby!!"

Jacques C. Voisin, N4JCV, AAR4JI  
ARC of Central Florida Comm Chairman  
<http://evcom.net/~jvoisin/n4jcv.htm>  
e-mail: [jvoisin@evcom.net](mailto:jvoisin@evcom.net)

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## 784. [aprssig] Re: What are the differences between location and message transmissions?

From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
Date: Fri, 16 Jun 2000 12:01:41 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-91261-2000.06.16-11.05.10--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

On Fri, 16 Jun 2000, Sadowski, Allan wrote:

> Would it not be fair to say that sending messages via UI frames was a  
> compromise? The more appropriate method for sending messages (and  
> files) is via standard connected AX.25 frames...  
> I know of several "standard" packet "networks" that have no problem with  
> message and file transfer.. and in fact do it on a regular basis...

YES! BIG DIFFERENCE. The difference is not between UI versus CONNECTED,  
the difference is between "DIGIPEATERS" and "NODES". They are using  
"NODES" with "link-by-link acknowledgment". This is the \*right\* way to  
send multi-hop traffic with acknowledgments. "NODES" evolved in the mid  
1980's to solve this very problem. The success rate for "End-for-end"  
acks as used via DIGIPEATERS (and APRS) fails rapidly beyond 1 hop...  
whether it is UI or connected.

I'm glad you asked for this clarification.. Thanks

> It would appear that the proper tool for the job of sending "critical" data  
> is NOT UI packets but rather to use the correct tool.... connected  
> packets...

BUT ONLY ON A NODE NETWORK. Not on a digipeater system beyond 1 hop.

> The "advantage" (if there really is one) with using UI packets is that you  
> don't have to go to the right tool (software other than current "APRS"  
> software... and changing to the frequency that has the connected network  
> (145.01, .03, .05, .07, .09 - what is appropriate for that locale for  
> connected digi networks)....  
>  
> Maybe "APRS" software ought to be revised to accomodate the use of CONNECTED  
> packet communications in addition to UI broadcasts....

But ONLY if we can also then PREVENT its use on our DIGIPEATER system.

de WB4APR, Bob

---

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## 785. [aprssig] Re: SETTINGS FOR WIDE-N/TRACE-N DIGI

From: Gerry Paquette <ve2aw@amsat.org>  
Date: Fri, 16 Jun 2000 12:09:54 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91263-2000.06.16-11.13.54--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

A hearty thanks for the prompt reply and for the information which you have  
provided Jeff. Use of computers at the proposed digi site is out of the  
question at this time, but will see what can be done.

Another possible (probable) solution might be replacing the KPC3 TNC with  
something like the Tiny 2 upgraded to UIDIGI, which was released by Marco,  
IW3FQG.

I guess I will have to do a bit more reading on this. Vy 73 and bon week-end !  
:-)

Jeff Brenton wrote:

> The SUPLIST and LLIST will NOT stop traffic the way you're hoping to,  
> Gerry. They look at the SENDER, not the digipeater, for controlling what  
> gets repeated. In fact, without computer assist, there are no methods to do  
> it with the KPC-3.  
>  
> WITH computer assist and something like DIGI\_NED running, you could  
> implement rules that would handle the situation.  
>  
> Jeff Brenton  
> President,  
> Engineered Software Products, Inc  
> http://espi.com  
> Questionable web page: http://dididahdahdidit.com  
> Northern Illinois APRS Network: http://nian.aprs.net



>  
> My goal in life: To be remembered as someone who always  
> stated what should have been obvious to everyone in the  
> first place.  
  
--  
Gérard (Gerry) Paquette  
Home Page: <http://www.geocities.com/CapeCanaveral/Hangar/4765/>  
Canadian WinAPRS Support Site: <http://www.qsl.net/ve2aw/>  
WinAPRS maps of some regions in Canada: <ftp://ftp.qsl.net/pub/ve2aw/>  
  
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## 786. [aprssig] APRS-SIG Event list

From: K3for@aol.com  
Date: Fri Jun 16 13:45:02 2000  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-91278-2000.06.16-12.48.45--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain  
  
APRS-SIG Event list for 6-16-2000 published weekly to [aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)  
All events welcome. Send posts to [k3for@aol.com](mailto:k3for@aol.com) in fixed-character format  
like the table below. View table in fixed 80 column width for even  
spacing. 73's Skip/K3FOR/Annapolis

| DDMM  | LOCAT | START/STOP/DUR                            | FREQS USED  | CALLS                             | EVENT                                                                                                                                                            |
|-------|-------|-------------------------------------------|-------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 17JUN | NYC   | 0600-1800                                 | 144.390 (?) | N2ZRC+                            | Swim Around Manhattan<br><a href="mailto:n2zrc@webspan.net">n2zrc@webspan.net</a>                                                                                |
| 17JUN | KC,KS | 0700CDT                                   | 144.340     | KA0JLF-11<br>N3KKM-11<br>N9XTN-11 | TRIPLE APRS BALLOON LNCH<br>EMAIL: <a href="mailto:n3kkm@kcnet.com">n3kkm@kcnet.com</a><br><a href="http://www.kcnet.com/~n3kkm">http://www.kcnet.com/~n3kkm</a> |
| 19JUN | USA   | 0800PDT to<br>AUG 6<br>Seattle to Wash DC | APRS VHF/HF | KE7A-9                            | American Lung Association<br>Big Ride Across America<br><a href="http://bigride.findu.com">http://bigride.findu.com</a>                                          |
| 25JUN | CH,TN | 0800EST                                   | 144.390     | KE4FGW-9                          | ADA BIKE RIDE                                                                                                                                                    |

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## 787. [aprssig] Disappearing WinAPRS

From: Ray Vaughan <[ray@rayvaughan.com](mailto:ray@rayvaughan.com)>  
Date: Fri, 16 Jun 2000 14:16:26 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-91282-2000.06.16-13.19.53--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Has anyone else experienced this? I'm running WinAPRS 2.4.6 at home on an NT40 computer. Everything is running along just fine when I go to bed, but by morning, WinAPRS is missing. I mean it's not locked up, the program simply isn't running. Not in the task bar. The computer has no applications running. I click on WinAPRS and it comes right up as it normally does when it starts. The key to this might be NT40. Maybe what would have crashed Win9x only crashes the app in NT. Could this be a case of unhandled exceptions again, or do I have something else going on?

btw, sometime yesterday, I got another one of the unhandled exceptions. Its been much better lately. That was the first one in a few days.

Thanks.

Ray J. Vaughan, MS, CBTE, CERT  
KD4BBM PG-7-15266  
[ray@rayvaughan.com](mailto:ray@rayvaughan.com)  
[ray@2-way.com](mailto:ray@2-way.com)  
<http://www.rayvaughan.com/>

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## 788. [aprssig] New aprsd up on [www.aprs.net](http://www.aprs.net)

From: Steve Dimse <k4hg@tapr.org>  
Date: Fri, 16 Jun 2000 14:38:02 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91283-2000.06.16-13.41.39--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Thanks to Dale there is a new version of aprsd running on the primary server. Hopefully this fixes the problems with Mic-E conversions.

The network will not be free of these problems until an official version is released, and everyone has upgraded. However, most of the problems were likely being caused by conversions in the primary server, so the situation should be improved now.

Steve K4HG

---

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## 789. [aprssig] Re: Disappearing WinAPRS

From: Guy Story <kc5goi@tapr.org>  
Date: Fri, 16 Jun 2000 13:49:08 -0500 (CDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91285-2000.06.16-13.52.36--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Ray, I have had this happen too, but I have not a clue as to why. I suddenly started to do this and ended suddenly too,

73,

Guy Story  
KC5G0I  
kc5goi@tapr.org  
<http://www.kc5goi.net>

---

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## 790. [aprssig] Re: Disappearing WinAPRS

From: wo4u@juno.com  
Date: Fri, 16 Jun 2000 16:25:46 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: aprssig@lists.tapr.org  
Message-ID: <LYR842-91295-2000.06.16-15.30.07--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Do other programs remain running through the night?? It isn't anything as simple as a power hit causing your computer to reboot is it??

Paul - W04U

On Fri, 16 Jun 2000 14:16:26 -0400 Ray Vaughan <ray@rayvaughan.com> writes:

> Has anyone else experienced this? I'm running WinAPRS 2.4.6 at home  
> on an NT40 computer. Everything is running along just fine when I  
> go to bed, but by morning, WinAPRS is missing. I mean it's not  
> locked up, the program simply isn't running. Not in the task bar.  
> The computer has no applications running. I click on WinAPRS and  
> it comes right up as it normally does when it starts. The key to  
> this might be NT40. Maybe what would have crashed Win9x only  
> crashes the app in NT. Could this be a case of unhandled  
> exceptions again, or do I have something else going on?

---

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## 791. [aprssig] Re: Disappearing WinAPRS

From: Ray Vaughan <ray@rayvaughan.com>  
Date: Fri, 16 Jun 2000 16:51:37 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91298-2000.06.16-15.55.06--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

APRS is the only thing running on that computer. I don't think it's a reboot issue. It would be asking me to log on if it had rebooted.

Good thought, but I don't think that's it.

At 04:25 PM 6/16/00 -0400, you wrote:  
>Do other programs remain running through the night?? It isn't anything  
>as simple as a power hit causing your computer to reboot is it??  
>  
>Paul - W04U

---

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## 792. [aprssig] Balloon launch Saturday

From: "Mark D. Conner" <mconner@null.net>  
Date: Fri, 16 Jun 2000 17:37:53 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91309-2000.06.16-17.43.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The NSBG-HABITAT/SkyLab-N9XTN balloon launch scheduled for Saturday the 17th (previously scheduled for the 10th) looks to be a "go" at this point, but with a modified mission. The weather looked no good for much of the week, but at the last minute here it looks like we may catch a break.

Instead of a triple balloon flight, we will fly two payloads on one balloon. N3KKM-11 will be on 144.340 MHz and N9XTN-11 will be on the national frequency (144.390 MHz). The 144.340 traffic will also be I-gated to APRServe.

Launch time is scheduled for 0700 CDT (1200 UTC) on Saturday, 17 June, from near Edgerton KS. The anticipated landing is about 30 miles ENE of downtown Kansas City. Max altitude will be around 90,000 ft.

Weather conditions are still somewhat iffy for launch, as the rain currently near the launch site may stick around until morning. If it is cancelled we'll try to get a message out on APRS, but the launch site is on the fringes of the local APRS coverage.

73 de Mark N9XTN

-----

Mark D. Conner  
E-mail: mconner@null.net n9xtn@arrl.net  
Homepage: <http://members.home.net/mconner1>  
"Arrogance and stupidity, all in the same package....how efficient of you!" - Ambassador Londo Mollari, Babylon 5

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## 793. [aprssig] AFilter117.zip from Bill Diaz

From: Tate - KC7ZRU <kc7zru@cyberhighway.net>  
Date: Fri, 16 Jun 2000 17:26:32 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91313-2000.06.16-19.29.00--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bill Diaz's newest release of his AFilter program (117) is now available on my web site (URL in sig block).

You can still get it from Bill's FTP server  
(<ftp:billdiaz.dynip.com/outgoing>) - but only when he's online.

```
--
                KC7ZRU      |      In Laramie Area
                Laramie, WY |      UARC Repeater
                DN71eh      |      146.610
"The Dungeon" online at http://www.cyberhighway.net/~tateb
                Redhat LINUX 6.1
```

```
---
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```

## 794. [aprssig] RE: Not exactly APRS, but...

```
From: "Andrew Witham W1SAR" <w1sar@searcher.org>
Date: Fri, 16 Jun 2000 18:45:17 -0700
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-91326-2000.06.16-20.54.14--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

As someone who picked up pieces of the passengers and plane that exploded over Lockerbie, Scotland a few years ago, I am more concerned that you are able to boast of being able to board a plane with only a second glance. Perhaps instead of feeling 'hassled' that security thought you had a Leatherman when it was actually a Swiss Army knife, you should consider for just a moment how you family and friends would have felt if the terrorist boarding a plane with a bomb also boasted about how he got through without a second glance to leave something 'nice' under your seat!

Airport Security is not concerned with your activities as a smuggler, but as a potential security risk to other passengers and crew. That's why, when you were (correctly) perceived to be carrying a potential weapon, the staff took action to protect themselves. They cannot read what is in your mind as to your intended use of the 'weapon' - the acted upon the suspicion that you were carrying a potential weapon.

I personally feel much happier boarding a plane knowing that the person sat next to me doesn't have a knife with him.

And if you think the attention to detail was race related, I suspect you are more 'hung up' about your race that the security staff were. I've had more 'hassle' that you seem to have enjoyed trying to carry a police badge through some security checkpoints. (And I'm an immigrant in a racial minority too!)

Just a personal 'off topic' observation - and I'm glad that you enjoyed your trip and returned home safely.

Drew W1SAR

```
>
> I should have brought my TH-D7 and scanner along, but didn't want
> to hassle
> with Customs/Airport Security. It turns out I must not fit any smuggling
> profiles, because I ran into no hassles anywhere... EXCEPT in the LA
> International Airport Terminal on my outbound flight, where I was hassled
> for about 10 minutes by airport security, who insisted I had a
> "Leatherman"
> in my carry-on (which I didn't). They all but treated me as an
> international terrorist and even asked me to "step away from the bag..."
> after they asked to search it. They had a very bad attitude and
> I hate to
> say it, but I was being hassled because of my race, and airport security
> guards have a badge mentality. After not being able to find a
> Leatherman,
> I did point out I had a Swiss Army Knife (which was quite handy in
> Malaysia). They had to clear that with a supervisor. Sheesh!
> When I got
> on the Air Malaysia 747-400, I noticed one of our Stewards had a
> Leatherman
> on his belt... :) I went thru Taipei, Malaysia, and Tokyo with nary a
> second glance from Immigration/Customs/Security officials. The
> only place
>
```

---

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## 795. [aprssig] Re: second.aprs.net outage

From: Greg Noneman <greg@clubnet.net>  
Date: Fri, 16 Jun 2000 18:59:48 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91328-2000.06.16-21.03.57--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

second.aprs.net (social.aprs.net) is back in full operation at its new site. Both server and IGate services are operational.

Greg  
WB6ZSU

---

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## 796. [aprssig] RE: Not exactly APRS, but...

From: "Brian B. Riley" <brianbr@macconnect.com>  
Date: Fri, 16 Jun 2000 22:16:14 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91330-2000.06.16-21.17.06--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

----- Original Message -----

From: "Andrew Witham W1SAR" <w1sar@searcher.org>  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Sent: Friday, June 16, 2000 9:45 PM  
Subject: [aprssig] RE: Not exactly APRS, but...

> As someone who picked up pieces of the passengers and plane that  
exploded  
> over Lockerbie, Scotland a few years ago, I am more concerned that  
you are  
> able to boast of being able to board a plane with only a second  
glance.  
> Perhaps instead of feeling 'hassled' that security thought you had a  
> Leatherman when it was actually a Swiss Army knife, you should  
consider for  
> just a moment how you family and friends would have felt if the  
terrorist  
> boarding a plane with a bomb also boasted about how he got through  
without a  
> second glance to leave something 'nice' under your seat!

As someone who has also had to sort through assorted body parts I  
can relate that such an experience probably had a profound effect  
upon you. The horror of that experience notwithstanding I would still  
say to you that your perspective is skewed.

There is a vast difference between a Leatherman and a bagfull of  
Semtex or C4. Mark's carrying of a leatherman in his bag has no  
relation at all to a bomb in checked luggage. The general practice of  
airline (in)security is a farce ... a classic case of "penny wise and  
pound foolish" ... The end result is that damned little is prevented  
and whole lot of people are inconvenienced turned into trained sheep.  
If someone wants badly enough to bring down an airplane he will not be  
stopped. If we turn the airports into armed camps with strip searches  
then 'they' win!

BB Riley, Lt USMC(ret)

--

Brian B. Riley, N1BQ (ex-KA2BQE)  
<<http://www.wulfdan.org>>

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## 797. [aprssig] aprsd watchdog

From: Steve Dimse <k4hg@tapr.org>  
Date: Fri, 16 Jun 2000 22:26:39 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91334-2000.06.16-21.30.16--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

First, my thanks goes to Dale for his continuing work on aprsd. With the new improvements, I have to admit it works better as the primary server than APRServe. Today when social was down the server had almost 200 connections and worked flawlessly.

However, there is a nagging, intermittent problem where the server process dies without warning. Before installing it on www.aprs.net I had been using it for local service for months, and never seen a crash. As the primary server, it seems to die after a day or two. Some IGates using aprsd seem to never be down, others seem to be down more than they are up. Intermittant problems like this are an incredible pain to track down, and in a case like this, there is an easier way to ensure the server remains up. I have implemented a simple watchdog system to restart the server as needed. I've been using this system for a month, and it has caught every server crash. Anyone running aprsd should consider running this to improve their uptime.

There are two short programs, "wd.pl" and "watchdog". wd.pl is a Perl program which connects to aprsd, and reads data line by line, and ignores it. If aprsd dies, the <SOCKET> input line returns null instead of a line. In this case, the program exits. There is also a timeout that quits the program if no data seen in 3 minutes. I've never seen this happen, but it is there for completeness.

watchdog is a shell script that runs wd.pl. As long as aprsd remains up, the script sleeps here, but when aprsd dies, causing wd.pl to exit, watchdog resumes execution, and stops (just to be sure) and starts the server, and finally restarts wd.pl to watchdog the new server instantiation.

To use the watchdog, simply cut out the two files and save them to any directory (be sure to chmod +x both files so they can execute) and type "nohup ./watchdog &" as root. I'm sure someone with a little more Linux saavy could make a smoother implementation, please feel free.

Steve K4HG

```
-----watchdog-----
while true
do
    wd.pl
    echo "restarting"
    sleep 3
    /etc/rc.d/init.d/aprsd.init stop
    sleep 2
    /etc/rc.d/init.d/aprsd.init start
    sleep 10
done
-----

-----wd.pl-----
#!/usr/bin/perl

$SIG{'ALRM'} = \&lost_connect;

($d1, $d2, $prototype) = getprotobyname("tcp");
($d1, $d2, $d3, $d4, $rawserver) = gethostbyname("localhost");
($d1, $d2, $d3, $d4, $rawclient) = gethostbyname("localhost");
$clientaddr = pack ("Sna4x8",2,0,$rawclient);
$serveraddr = pack ("Sna4x8",2,23,$rawserver);
socket(SOCKET,2,1,$prototype) || die ("No socket");
bind(SOCKET,$clientaddr) || die ("Can't bind");
connect(SOCKET,$serveraddr) || die ("Can't connect");

alarm(180);
while (1)
{
    $line = <SOCKET>;
    exit(0) if(!$line);
    alarm(180);
}

sub lost_connect
{
```

```
        exit(0);
    }
```

-----

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---

## 798. [aprssig] findu.com status

From: Steve Dimse <[k4hg@tapr.org](mailto:k4hg@tapr.org)>  
Date: Fri, 16 Jun 2000 22:29:58 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-91335-2000.06.16-21.33.34--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-91335-2000.06.16-21.33.34--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

The tech support line at Telocity says DSL service is expected to be restored by midnight EST. We'll see...

Steve K4HG

---

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---

## 799. [aprssig] Pic-E

From: Lee810@aol.com  
Date: Fri, 16 Jun 2000 23:50:49 EDT  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-91341-2000.06.16-22.54.17--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-91341-2000.06.16-22.54.17--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

In a message dated 6/15/00 10:59:43 PM Mountain Daylight Time, [aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org) writes:

```
> Subject: Pic-E
> From: Ron Walther <rascal@azstarnet.com>
> Date: Wed, 14 Jun 2000 22:06:13 -0700
> X-Message-Number: 2
>
> Good Evening Folks;
>
> Does anyone have any idea what the Radio Shack part number is for
> the enclosure that TAPR uses to house the Pic-E.???.
>
> 73. ron -- W7AI
>
```

See:

<http://members.aol.com/lee810/pice.html>

for a few tips on using the Pic-E, including the part number for the Radio Shack enclosure.

Lee Devlin, K0LEE  
Greeley, CO Visit my PIC-E page at:  
<http://members.aol.com/lee810/pic-e.html>

---

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---

## 800. [aprssig] Re: What are the differences between location and message transmissions?

From: Doug Rich <[doug@safelink.net](mailto:doug@safelink.net)>  
Date: Fri, 16 Jun 2000 23:08:55 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-91356-2000.06.17-00.18.26--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-91356-2000.06.17-00.18.26--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Additional info: some areas had no other stations other than our own. We had a stand-alone tracker with relay,wide,wide (for the end of the pelaton); high powered mobile setup as relay, wide,wide (at the beginning); two stations on high points who had alias of relay and wide with a path of relay,wide; and a finish line with a path of relay,wide. This was high mountain country and no other station could be heard. All most all location tracks were received but there were long delays in acking messages.

At 07:25 PM 6/15/2000 -0600, you wrote:  
 >Working with a bicycle event this last week we found a significant  
 >difference between the coverage of tracked locations and  
 >messages. Tracked positions almost always were received and the signal  
 >had to be significantly improved to be received. What is the reason??  
 >  
 >Thanks  
 >Doug  
 >Doug KD6GCL also kd6gcl@arrl.net  
 >  
 >  
 >---  
 >You are currently subscribed to aprssig as: doug@the-one.com  
 >To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

---  
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## 801. [aprssig] Re: Interesting Occurrence - Wrapup

From: "Christopher E. Phelps" <n2yqp@flash.net>  
 Date: Fri, 16 Jun 2000 22:28:47 -0600  
 To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
 Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
 Message-ID: <LYR842-91378-2000.06.17-06.44.58--lyris.aprssig#tapr.org@lists.tapr.org>  
 Rendered body type: text/plain

I have had where I have moved into the frontal lobe of a 50KW AM transmitter (KOB at 770kHz here in ABQ) and when I came home and looked at my tracks, found my position shifted by as much as ten miles from where I was going. It didn't recover till I was almost home which is about five miles to the rear of the directional lobe of the night pattern of the station. The excess wire of the magmount gps ant. was coiled up inside the metal walls of the truck bed.

----- Original Message -----

From: "Gerry Creager" <gerry@cs.tamu.edu>  
 To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
 Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
 Sent: Wednesday, June 14, 2000 1:00 PM  
 Subject: [aprssig] Re: Interesting Occurrence - Wrapup

> Claude Head wrote:  
 > >  
 > > Thanks to all who commented on this "interesting occurrence".  
 > >  
 > > Gerry, N5JXS - Multipath is evil - Multipath is evil! I agree :-)  
 > > I'm inclined to think this anomaly was caused by a specular  
 > > reflection from one or more of the nearby buildings. I think  
 > > "specular" because the position offset was sudden, and then  
 > > stable. The stability surprises me since the satellites are  
 > > moving pretty fast, but I guess the angular velocity of a  
 > > satellite  
 > > can be pretty small under some conditions. Gerry, the antenna  
 > > is a  
 > > a Trimble obtained from Paccomm, and is mounted at the center  
 > > of the dashboard as close to the windshield as I could get  
 > > it. Except for the direction toward the back of the car, it  
 > > has a  
 > > pretty good view of the sky. Car is a '94 Chevy Caprice.  
 > >  
 > > Plus 2 linear roof supports, a linear roof interface, all the stiff  
 > > inside the car,  
 > > a regular multipath haven. I suspect your notation of 'specular' is  
 > > on-target.  
 > >  
 > > Jim, K5QQ, suggests that the shift might have been caused by a Garmin  
 > > "vehicle position" setting of "on the road" vs "actual". So  
 > > far as  
 > > I know, neither the GPS45 or Street Atlas v7.0 has such a  
 > > setting - I have certainly not made any such selection.  
 > >  
 > > Unknown to me...  
 > >  
 > > Byron, WA6YLB, suggests that the offset might be caused by RFI from  
 > > the traffic signals themselves. Byron, I did not look at the  
 > > screens



> > until after I had stopped at the light. I have seen  
> > interference from  
> > power lines suppress the GPS signals completely, to the point  
> > where  
> > the system lost lock, but I've not seen RFI cause a sudden,  
> > stable  
> > offset before. I think this is unlikely.  
>  
> I, too, have observed power-line suppression of the received signals,  
> and EMI overload  
> of some antennas used for GPS. I've also seen some RFI from high-band  
> and UHF rigs.  
> All of these have been experienced at high RF levels. I don't think the  
> traffic signal RF devices are in the right range to cause problems, nor  
> at a high enough power level. Most of the "active" signal preemption is  
> actually receivers, with the transmitting hardware on the emergency  
> vehicles.  
>  
> > In summary, I think Gerry identified the problem correctly. I was just  
> > surprised that I had not seen it before like this. Multipath errors must  
> > be pretty common in the cities. Maybe they have been there all along,  
> > and I just didn't notice them - or maybe they stand out better now that  
> > SA has been turned off.  
>  
> :-)  
>  
> urban canyon effect caused by signal obstruction by tall buildings, or  
> by multipath, has long been recognized as a problem that the various  
> manufacturers have dealt with, or ignored. the sudden jump and equally  
> sudden recovery suggest a relatively static error, like multipath off a  
> fixed building. This is a valuable lesson to learn about GPS  
> performance.  
>  
> > Once again, thanks for the responses and the suggestions.  
>  
> Glad to!  
>  
> 73, gerry n5jxs  
> --  
> Gerry Creager | Never ascribe to Malice that  
> Computer Science Department | which can adequately be  
> Texas A&M University | explained by Stupidity.  
> 979.458.4020 (Phone) | -- Lazerus Long  
> 979.847.8578 (Fax)  
>  
> ---  
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>  
>

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## 802. [aprssig] Field Day Bonus

From: John Blowsky <kb2scs@worldnet.att.net>  
Date: Sat, 17 Jun 2000 08:08:26 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91382-2000.06.17-07.55.25--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi All

The following is from the ARRL Letter. I know we all know about the 100 point bonus for setting up a demonstration of a "nontraditional mode of Amateur Radio communication" such as APRS.

The text also goes on to list a few other examples including but not limited to ATV and SSTV.

What if a FD site demonstrates APRS,ATV and SSTV for example. Does that site get 300 points?  
100 for each demonstration?

I would guess since the wording is "A" demonstration then you only get 100 points total.

> \* How to get the WIAW Field Day bulletin: Field Day participants can earn  
> 100 bonus points by copying the WIAW Field Day bulletin. This bulletin will  
> be transmitted on the regular WIAW frequencies. CW: Saturday, June 24, 0000  
> UTC, 0300 UTC, 1400 UTC; Sunday, June 25, 0000 UTC, 1400 UTC. SSB: Saturday,  
> June 24, 0145 UTC, 1500 UTC; Sunday June 25, 0145 UTC; 1500 UTC; RTTY:  
> Saturday June 24, 0100 UTC; Sunday, June 25, 0100 UTC. The Field Day  
> bulletin must be copied over the air for credit. It is not posted at the  
> ARRL Web site, nor will it be available on the Internet. Remember too that a  
> new bonus of 100 points can be earned by setting up a demonstration of a  
> nontraditional mode of Amateur Radio communication--including APRS, ATV or  
> SSTV. This bonus is not available for demonstrating modes for which QSO  
> credit can be earned, such as packet, PSK31 or other digital modes. Good  
> luck in FD 2000!  
>

--

Let us hope we never witness the "Silence Of The Hams"

73 DE John KB2SCS

Mail To: kb2scs@wa2pnu.#nli.ny.usa.noam

E-Mail: kb2scs@arrl.net

---

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### 803. [aprssig] It's an APRS Sing-a-Long!!!!!!!!!!1

From: Jim Duncan <ku0g@kcaprs.org>

Date: Sat, 17 Jun 2000 08:56:20 -0500

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Message-ID: <LYR842-91404-2000.06.17-09.00.01--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

<Don Ho voice on>

Tiny Web Pages,  
Just one line,  
Make my HT,  
Just so fine.

Tiny Web Pages,  
in the air,  
let's me know I'm  
al-most there.

Rectal readings,  
Radio Shack,  
Get that probe a-  
way my back!

Tiny Web Pages,  
pinged then pong  
Now I'll stop this  
silly song!

ALOHA!

<Don Ho voice off>

- from the warped and slightly demented mind of...KU0G  
(the guy who brought you "The 12 Days of APRS"!)

--

73 de Jim, KU0G

Chairman/Coordinator

Kansas City APRS Working Group, W0APR

First Alert Storm Team KMBC-TV9

Mailto:ku0g@kcaprs.org

Webpage: http://www.kcaprs.org

---

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### 804. [aprssig] but seriously folks....

From: Jim Duncan <ku0g@kcaprs.org>  
Date: Sat, 17 Jun 2000 08:58:14 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91405-2000.06.17-09.01.57--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I like the concept of the TWP's but I have one concern:

Radio Shack locations being transmitted....

Even though I'm not sure that it's a legal issue, I'm not sure if it's appropriate to "advertise" Radio Shack stores on APRS (read: amateur radio)...

--

73 de Jim, KU0G  
Chairman/Coordinator  
Kansas City APRS Working Group, W0APR  
First Alert Storm Team KMBC-TV9  
Mailto:ku0g@kcaprs.org  
Webpage: <http://www.kcaprs.org>

---

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---

## 805. [aprssig] Re: It's an APRS Sing-a-Long!!!!!!!!!!!!1

From: Byron Smith <wa6ylb@theworks.com>  
Date: Sat, 17 Jun 2000 07:11:18 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: aprssig@tapr.org  
Message-ID: <LYR842-91406-2000.06.17-09.16.48--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Its obvious that you have way too much time on your hands :-)

At 08:56 AM 06/17/2000 -0500, you wrote:

><Don Ho voice on>

>

>Tiny Web Pages,

>Just one line,

Byron Smith  
wa6ylb@theworks.com - Webpage: <http://www.theworks.com/~wa6ylb>  
wa6ylb@wa6ylb.#nca.ca.usa.noam  
ICQ 26114994

If a man makes a statement, deep in the forest, and there isn't a woman around to hear him, is he still wrong?

---

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---

## 806. [aprssig] findu is up

From: Steve Dimse <k4hg@tapr.org>  
Date: Sat, 17 Jun 2000 10:13:43 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91407-2000.06.17-09.17.20--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The DSL line came up about 2 AM, findu is fully operational, and the lost data has been restored from the backup.

Steve K4HG

---

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## 807. [aprssig] Truncated packets on APRServe

From: Bill Diaz <billdiaz@megsinet.net>  
Date: Sat, 17 Jun 2000 09:42:33 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91410-2000.06.17-09.46.08--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I connected to www.aprs.net this morning and found that some packets appear to be getting truncated to 100 bytes.

```
N4UYQ-10>WA4BWB-3* <UI,APRS,N4EVA-10:!3736.26NN07722.42W#PHG5260 Richmond, Va
W/R/T (future Va Scie
KD4HTW-14>WIDE3-2 <UI
R,GPSLK,KD4HTW-9,N4AGN-9,WA4BWB-3*:$GPGGA,133952,3412.089,N,07954.413,W,1.06,
KD4HTW-14>WIDE3-1 <UI
R,GPSLK,KD4HTW-9,N4AGN-9,WA4BWB-3*:$GPRMC,133952,A,3412.089,N,07954.413,W,0.000
KQ4MS-14>WIDE6-4
<UI,APRS,WA4BWB-3*:$GPGGA,141233,3549.7285,N,07835.6367,W,1.04,1.06,91.4,M,-
33.0,M
```

This packet appears to have been truncated :  
N8YCL>WA4BWB-3\* <UI,APW240,GATE,KQ4MS-3:=3909.33N/08437.88W&PHG9102/Cincinnati  
& SW Ohio 24h 365d

This packet fragment was received shortly after the above packet.  
HF GATEway -OHHAMCINCINNA-240-<520>

Another packet truncated to 100 bytes :  
N4DOU>WIDE3-3 <UI  
R,APW243,KD4HTW-9,WA4BWB-3\*:=3407.56N/07951.21W-PHG1170/WinAPRS 2.4.3  
-SCFLOFLORE  
The next packet :  
NCE-243-<520>

100 byte packet :  
KC4LWI>WIDE <UI R,APW245,WIDE,WA4BWB-3\*:=3718.93N/07956.85WIPHG5196/WinAPRS  
2.4.3 -VAROAROANOKE -24  
The next packet :  
5-<530>

Packets associated with WA4BWB-3 that are in excess of 100 bytes appear to be passed as 2 separate packets.

Bill KC9XG

---

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## 808. [aprssig] Re: but seriously folks....

From: Ray Vaughan <ray@rayvaughan.com>  
Date: Sat, 17 Jun 2000 10:48:47 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91412-2000.06.17-09.52.22--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I guess it's a matter of where you are in the retail food chain. If you work at a Radio Shack and could profit from telling others where you're located, yes, I think that would be a violation. BUT, if you don't in ANY profit the transmission, there's NO problem with it. Personally, I hope someone would send this information if I was visiting and needed a part real fast for a project. Remember, things changed quite a bit since the 'pizza rule'. You can order a pizza on the autopatch, but don't call a customer if you're selling pizza and need directions for a delivery. Before that major change, any business on the air was prohibited. I don't think, even under the old rules, location information could be considered a problem.

"§97.113 Prohibited transmissions.

(a) No amateur station shall transmit:

(3) Communications in which the station licensee or control operator has a pecuniary interest, including communications on behalf of an employer. Amateur operators may, however, notify other amateur operators of the availability for sale or trade of apparatus normally used in an amateur station, provided that such activity is not conducted on a regular basis; "

At 08:58 AM 6/17/00 -0500, you wrote:  
>I like the concept of the TWP's but I have one concern:  
>  
>Radio Shack locations being transmitted....  
>  
>Even though I'm not sure that it's a legal issue, I'm not sure if it's  
>appropriate to "advertise" Radio Shack stores on APRS (read: amateur  
>radio)...

Ray J. Vaughan, MS, CBTE, CERT  
KD4BBM PG-7-15266  
<http://www.rayvaughan.com/>  
[ray@rayvaughan.com](mailto:ray@rayvaughan.com)  
[ray@2-way.com](mailto:ray@2-way.com)

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### 809. [aprssig] Re: Truncated packets on APRServe

From: Steve Dimse <[k4hg@tapr.org](mailto:k4hg@tapr.org)>  
Date: Sat, 17 Jun 2000 10:48:59 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-91413-2000.06.17-09.52.47--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-91413-2000.06.17-09.52.47--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

On 6/17/00 10:42 AM Bill Diaz ([billdiaz@megsinet.net](mailto:billdiaz@megsinet.net)) wrote:

>Packets associated with WA4BWB-3 that are in excess of 100 bytes appear to  
>be  
>passed as 2 seperate packets.  
>

This is very common, the result of an incorrect TNC setting (I think it  
is TERM or TERMLENGTH on Kantronics).

Steve K4HG

---

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### 810. [aprssig] Re: Truncated packets on APRServe

From: "Jeff Brenton" <[jeffb@espi.com](mailto:jeffb@espi.com)>  
Date: Sat, 17 Jun 2000 15:29:04 -0000  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-91415-2000.06.17-10.33.12--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-91415-2000.06.17-10.33.12--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

> truncated packets ... HF

Too many people running WinAPRS on HF do not realize that the default  
64-byte paclen on HF is NOT NEARLY ENOUGH. Even PACLEN 128 is a bit short...

WIN/MACAPRS IS NOT THE IDEAL VERSION TO RUN HF WITH!!!

The position packets for Win/MacAPRS are huge, on a band where small is  
better. The added version/locator information it automatically includes  
(some of which is now unneeded, due to the version being put in the  
destination address) will push packets over the PACLEN limits, breaking the  
packet into two pieces. It usually will NOT be reassembled correctly, so  
half of it will be "in limbo", as demonstrated in the APRSERVE snippet  
provided.

Jeff Brenton, Amateur Radio call sign KA9VNV  
<http://espi.com>  
Questionable web page: <http://dididahdahdidit.com>

---

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---

### 811. [aprssig] Addendum to aprsd watchdog...

From: Steve Dimse <[k4hg@tapr.org](mailto:k4hg@tapr.org)>  
Date: Sat, 17 Jun 2000 11:42:13 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-91416-2000.06.17-10.46.07--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-91416-2000.06.17-10.46.07--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

I made a mistake in the listing for wd.pl. The version I sent is for  
first.aprs.net, which uses port 23 for the unbuffered port. If you are  
using the default port numbers (and I think everyone else is, the  
\$serveraddr line should be:

\$serveraddr = pack ("Sna4x8",2,10152,\$rawserver);

Sorry 'bout that!

Steve K4HG

---

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## 812. [aprssig] Re: Truncated packets on APRServe

From: Steve Dimse <k4hg@tapr.org>  
Date: Sat, 17 Jun 2000 11:45:06 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91417-2000.06.17-10.49.14--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 6/17/00 11:29 AM Jeff Brenton (jeffb@espi.com) wrote:

>Too many people running WinAPRS on HF do not realize that the default  
>64-byte paclen on HF is NOT NEARLY ENOUGH. Even PACLEN 128 is a bit short...  
>  
PACLEN is a different problem. The lines Bill points out were split by  
the TNC on rx:

N8YCL>WA4BWB-3\*  
<UI,APW240,GATE,KQ4MS-3:=3909.33N/08437.88W&PHG9102/Cincinnati  
& SW Ohio 24h 365d  
HF GATEway -OHHAMCINCINNA-240-<520>

Had this been a PACLEN problem, the packet might have looked like:

N8YCL>WA4BWB-3\*  
<UI,APW240,GATE,KQ4MS-3:=3909.33N/08437.88W&PHG9102/Cincinnati  
& SW Ohio 24h 365d  
N8YCL>WA4BWB-3\* <UI,APW240,GATE,KQ4MS-3:HF GATEway  
-OHHAMCINCINNA-240-<520>

>WIN/MACAPRS IS NOT THE IDEAL VERSION TO RUN HF WITH!!!

>

I've been using MacAPRS on HF since it was alpha, and I think it is great  
on HF!

Steve K4HG

---

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## 813. [aprssig] Re: Disappearing WinAPRS

From: "Rob Wittner" <rmw@rwa-inc.com>  
Date: Sat, 17 Jun 2000 13:37:17 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91422-2000.06.17-12.38.39--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>

> APRS is the only thing running on that computer. I don't think  
> it's a reboot issue. It would be asking me to log on if it had rebooted.

>

> Good thought, but I don't think that's it.

>

Have you ever seen WinAPRS generate an unhandled exception in person? If  
so, does Dr. Watson come up? Is Dr. Watson set to record a log file and  
then quit? If so, that may be the culprit: the program generates an UE, Dr.  
Watson comes up and logs the error, and then the whole thing quits.

Just a thought...

-Rob  
KZ5RW

---

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## 814. [aprssig] Re: DX clusters EAST finished (DX Clustes West)

From: "Bill Kearns" <billk@inland.net>  
Date: Sat, 17 Jun 2000 11:00:14 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91427-2000.06.17-13.14.42--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

fellow siggerteers,

following bobs lead, i put together a dxcluster.pos list for southern california. im not finished with it (yet) and i intend to do the entire state. but i did do one thing different, i added the \*callsign\* of the node. (if you zoom in on your map, the callsign will be displayed). this is useful information if you want to connect to the node... you will have both things required, the frequency \*and\* the callsign :)  
i didnt have an Atlas so i used good ol www.qrz.com for locating the coordinates.

one caveat:

the coordinates listed in qrz are most probably the general coordinates of the fcc database address of the license holder. not the actual \*location\* of the node. a lot of dxcluster ops dont have the node at their actual home qth. for complete accuracy maybe an email to the node op will provide more accurate info as to the correct location of the dx cluster node.

this is easy:

go to: <http://www.cestro.com/pcluster/dxnodes.html>  
for a complete list of the dx cluster nodes in your state.

then look up the nodes listed callsign on <http://www.qrz.com/>  
click on 'more info...' for the coordinates  
the coordinates come up like this: (easily modifiable with your trusty mouse and delete key)  
33° 35' 43'' N, 117° 15' 25'' W

following bobs example (his message posted below)  
here is a copy of what i have done with the southern california dxcluster list so far.  
my only change was adding the callsign.  
(clip along line and save as socaldx.pos) or whatever :)

---

145.690!3343.24N/11614.25W%W6EEN  
145.660!3411.47N/11838.20W%W6KK  
145.670!3411.47N/11838.20W%K6EXO  
144.950!3339.06N/11653.58W%N7OD  
144.910!3424.06N/11917.51W%N6VR  
145.050!331.47N/11651.38W%KD6HRO  
145.690!3411.47N/11838.20W%K6EXO  
144.950!335.35N/11706.35W%W6ZZ  
144.950!335.49N/11716.10W%KM6K  
145.690!3322.9N/11713.05W%K6KT  
144.360!331.47N/11651.38W%N6ND  
145.605!3337.55N/11752.17W%N6HVZ  
144.910!3425.58N/11950.07W%W6RFU  
144.950!351.57N/12029.37W%N6MB  
144.490!348.22N/11735.09W%WB6UCD  
145.670!3335.43N/11715.25W%WB6JAR

---

73, bill wb6jar

\*\*\*\*\*

Bobs original post

> Here is the 2 K file of all DX clusters in the EAST. (Mid Atlantic) It  
> can be overlayed onto APRSdos and Mac/WinAPRS and any other program that  
> overlays \*.POS files. This is what we need for the other 5 areas I posted  
> earlier. Took me about 30 minutes to generate from the data for the  
> east and an Atlas. Its kinda interesting, since DX clusters and APRS  
> digis, sort of define a lot of what packet radio is all about these days.  
>  
> cut below the dotted line and save it  
> If you run Mac/WIn or any other program just save ALL DX clusters in one  
> file named DX.POS.  
>  
> If you run APRSdos, then save it in your APRS\POS directory as DX.EAS  
> so it will come up when you are in the EAS MAP CONFIGURATION

```

> Each area will have a different file extension.
>
> If you run APRSdata, then also save it as DX.POS, since it will define
> what you serve out to your local area as TInyWebPage info...
>
> -----
> * East Coast DX Clusters by WB4APR VA north to Maine
> 144.95!4146.14N/07257.89W%
> 145.63!4146.93N/07219.64W%
> 144.93!4150.00N/07148.00W%
> 145.73!4139.21N/07322.58W%
> 145.75!4118.59N/07210.19W%
> 145.77!4132.30N/07247.98W%
> 145.67!4201.93N/07244.60W%
> 145.75!4139.46N/07022.60W%
> 144.99!4236.54N/07133.38W%
> 145.65!4236.54N/07133.38W%
> 144.95!4229.81N/07135.19W%
> 145.61!4213.00N/07130.73W%
> 145.73!4154.39N/07038.76W%
> 145.69!4217.40N/07107.74W%
> 144.93!4421.16N/06939.44W%
> 144.91!4336.38N/07020.93W%
> 144.93!4258.68N/07057.98W%
> 145.73!4246.60N/07147.90W%
> 145.71!4245.00N/07157.00W%
> 144.97!4244.11N/07403.64W%
> 145.67!4042.91N/07315.59W%
> 145.75!4117.79N/07352.66W%
> 145.71!4223.84N/07330.86W%
> 144.93!4050.00N/07303.00W%
> 145.69!4051.98N/07355.24W%
> 144.97!4040.16N/07333.34W%
> 145.77!4035.96N/07404.56W%
> 145.05!4105.10N/07346.64W%
> 145.67!4157.00N/07408.00W%
> 145.09!4102.44N/07348.51W%
> 145.09!4117.88N/07347.63W%
> 145.59!4126.00N/07130.00W%
> 144.97!4143.56N/07136.21W%
> 144.95!3927. N/07543. W%
> 145.53!3944. N/07533. W%
> 145.63!3924. N/07725. W%
> 145.59!3909. N/07701. W%
> 145.57!3901. N/07645. W%
> 145.61!3918. N/07637. W%
> 145.63!3858. N/07546. W%
> 145.51!3904. N/07707. W%
> 145.63!3950. N/07713. W%
> 145.77!3843.5 N/07708.5 W%
> 145.71!3859. N/07734. W%
> 145.63!3839. N/07715. W%
> 145.61!3939. N/07451. W%
> 145.57!4030. N/07450. W%
> 145.59!4020. N/07426. W%
> 145.53!4050.4 N/07428.2 W%
> 145.73!4102. N/07444. W%
> 144.99!4032.5 N/07431.9 W%
> 445.525!4032. N/07533. W%
> 145.77!4051. N/07952. W%
> 145.77!4011. N/07703. W%
> 144.99!4131. N/07543. W%
> 147.495!4048. N/07533. W%
> 145.69!4124. N/07528. W%
> 144.95!4022. N/07517. W%
> 144.93!4007. N/07529. W%
> 144.93!4029. N/08001. W%
> 145.69!4055.00N/07558.00W%
> 145.01!4114. N/07701. W%
> 145.01!3647. N/07616. W%
> 145.07!3701.33N/07623.55W%
> 145.09!3705.00N/08023.00W%
> 145.65!3710. N/08027. W%
> 145.67!3723. N/07909. W%
> 145.59!3719.95N/07916.63W%
> 145.61!3817. N/07728. W%
> 145.51!3859.8 N/07716.0 W%
> 145.53!3842.9 N/07714.0 W%
> 145.59!3733. N/07727. W%

```



> 144.99!3725. N/07727. W%  
> DX !3801. N/07902. W%  
> 145.63!3817. N/08229. W%  
> 145.63!3855. N/08144. W%

---

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## 815. [aprssig] The French Resistance - or just being pissy

From: Dewey Bryant KD4EHC <kd4ehc@bellsouth.net>  
Date: Sat, 17 Jun 2000 14:20:20 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91431-2000.06.17-13.18.33--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

most every major tech firm around going full bore to make bluetooth a worldwide standard (very rare occurrence) and they gotta have a conference to work out "the French problem". now they are picking on APRS? vie va la difference works both ways!!!!!!

--

"A man with a gun goes into an elevator. Inside, he meets Adolf Hitler, a shark, and a lawyer. However, the man has only two bullets, so he shoots the lawyer twice." -- Buddy Hackett

---

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## 816. [aprssig] Re: The French Resistance - or just being pissy

From: Roger Barker <roger@peaksys.co.uk>  
Date: Sat, 17 Jun 2000 19:55:07 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91434-2000.06.17-13.59.59--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In article <LYR1643-91431-2000.06.17-13.18.33--ROGER#PEAKSYS.CO.UK@lists.tapr.org>, Dewey Bryant KD4EHC <kd4ehc@bellsouth.net> writes

>

>most every major tech firm around going full bore to make bluetooth a  
>worldwide standard (very rare occurrence) and they gotta have a  
>conference to work out "the French problem". now they are picking on  
>APRS? vie va la difference works both ways!!!!!!

I'd be a bit wary about saying "they are picking on APRS". I thought the message in question was nothing more than the (rather strange) opinions of one person.

Although APRS is not yet widely used in France, I have seen a great deal of enthusiasm for it from French radio hams.

--

Roger Barker, G4IDE - roger@peaksys.co.uk  
For UI-View go to - <http://www.packetradio.org.uk>  
For WinPack go to - <http://www.peaksys.co.uk>

---

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## 817. [aprssig] Re: The French Resistance

From: "Jeff King" <jeff@aerodata.net>  
Date: Sat, 17 Jun 2000 14:15:11  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91437-2000.06.17-14.18.38--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 06/16/00, "Jeff Brenton" <jeffb@espi.com> wrote:

> Sounds like this person in France is against the legal reason for Ham Radio  
> to exist in the U.S., i.e., for experimentation.

I didn't see that, where did you read that? In any case, it appears that his message was directed to a European audience, not a U.S. one.

I can see why his message got some people upset..... while I think parts of it are a stretch, other parts of it are quite factual.

A is A.

-Jeff

---

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## 818. [aprssig] Re: Truncated packets on APRServe

From: Ian Wade <[Ian.Wade@care4free.net](mailto:Ian.Wade@care4free.net)>  
Date: Sat, 17 Jun 2000 20:33:58 +0100  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-91442-2000.06.17-14.37.49--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In article <LYR14778-91415-2000.06.17-10.33.12--Ian.Wade#care4free.net@lists.tapr.org>, Jeff Brenton <[jeffb@espi.com](mailto:jeffb@espi.com)> writes  
>> truncated packets ... HF  
>  
>Too many people running WinAPRS on HF do not realize that the default  
>64-byte paclen on HF is NOT NEARLY ENOUGH. Even PACLEN 128 is a bit short...  
>

I have just run through some IGate output logs (totalling over 50K records), and discovered several lines (including headers) over 128 characters, the longest line being 186 characters.

The longest Information field length was 141 characters.

So, yes, PACLEN is much too short at 128 bytes.

There were also several reports split into two lines at 80 characters. The second line, of course, was not a valid packet. This should have been detected by the IGate and dumped. It should not have been re-transmitted.

Also, at HF, I don't understand why people still use the full "nnnn.nnN/nnnnn.nnW-" format instead of Mic-E format. The minimum Mic-E packet is just 28 bytes long, whereas the minimum regular posit packet is 39 bytes long. At HF, that's a big difference which really matters. If Mic-E won't do (e.g. because you want to send an Object Item report), you can still save on packet length by using the 13-byte compressed position format.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

\*\*\*\*\* Third draft now available \*\*\*\*\*

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
|                                     email: g3nrw@arrl.net |
|                                     |                   |
| APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER:        http://www.netro.co.uk/aprs.htm |
+-----+
```

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## 819. [aprssig] Re: Truncated packets on APRServe

From: Steve Dimse <[k4hg@tapr.org](mailto:k4hg@tapr.org)>  
Date: Sat, 17 Jun 2000 15:46:01 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-91444-2000.06.17-14.49.43--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 6/17/00 3:33 PM Ian Wade ([Ian.Wade@care4free.net](mailto:Ian.Wade@care4free.net)) wrote:

>There were also several reports split into two lines at 80 characters.  
>The second line, of course, was not a valid packet. This should have

>been detected by the IGate and dumped. It should not have been re-  
>transmitted.  
>  
I have no idea where you get this from. There NEVER has been any  
filtering of packets by the IGates, other than removal of the third party  
packets to prevent looping.

This was a very deliberate decision on my part. First, there are a  
half-dozen IGates that are hardware, and do not have the ability to  
filter anything. Second, the internet system was designed to be an  
accumulation of all APRS activity, the good, the bad, and the ugly.  
Third, when multiple programmers are involved, there are bound to be  
errors allowing bad data to pass through. Finally, as the protocol  
evolved, the IGates might filter out things they shouldn't. Sure, you can  
say the IGate software just needs to be upgraded, but a quick look at  
<http://www.aprs.net:14501/> will show just how good hams are about  
upgrading their software...

So, since you can never guarantee that the stream will be 100% clean, the  
client programs must be able to handle bad data. Given that, there is no  
reason to risk losing good data.

And besides, if all the IGates filtered out bad data, what would we have  
to talk about ;-)

Steve K4HG

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---

## 820. [aprssig] Re: SETTINGS FOR WIDE-N/TRACE-N DIGI

From: [rob@kawartha.com](mailto:rob@kawartha.com)  
Date: Sat, 17 Jun 2000 16:47:33 +0000  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-91450-2000.06.17-15.50.11--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi Gerry:

I am using uidigi 1.7 in a Pacomm tiny2 at va3ssf,  
Its been up for over 3 weeks and it works great.  
I also changed ve3rpt to Uidigi on a MFJ1270 this week..

I had a chat with one of the other digi owners about splitting up  
Ontario into 4 groups EASTON,CENTON SON,WESTON,NON  
for SSID routing.

73 TTUL....  
[ve3adj@rac.ca](mailto:ve3adj@rac.ca)  
[ve3kwi@rac.ca](mailto:ve3kwi@rac.ca)  
[rob@kawartha.com](mailto:rob@kawartha.com)

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## 821. [aprssig] Re: It's an APRS Sing-a-Long!!!!!!!!!!!!1

From: "Dick Stanich" <[dstanic@c2i2.com](mailto:dstanic@c2i2.com)>  
Date: Sat, 17 Jun 2000 16:3:30  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-91452-2000.06.17-16.06.56--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

For the younger APRS users out there... Don Ho is a Hawaiian entertainer  
who drinks and sings great songs like 'Tiny Bubbles'. Some of us 'older'  
folks get great pleasure in listening to this media when we are drunk. This  
does not necessarily mean we advocate being totally intoxicated while  
trying to navigate with APRS. It does seem to help some, according to  
recent studies. However, in most cases, just simply uttering a few sounds  
like Don Ho has the same effect as wearing rose colored glasses.

I'll drink to that...

Dick, KB7ZVA  
Author of '100 Bottles of Beer on the Wall'  
and the Yuma Igate ;)

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## 822. [aprssig] Re: [htaprs] Re: The French Resistance

From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
Date: Sat, 17 Jun 2000 17:54:44 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR Hot Technology APRS <[htaprs@lists.tapr.org](mailto:htaprs@lists.tapr.org)>, TAPR APRS Special Interest Group <[aprssig@tapr.org](mailto:aprssig@tapr.org)>  
Message-ID: <[LYR842-91461-2000.06.17-16.58.46--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-91461-2000.06.17-16.58.46--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

On Fri, 16 Jun 2000, Larry Zanella wrote:

> The Frenchman is precisely wrong. The usage of the ham bands is on the  
> decline and...

Today I listened to Paul Rinaldo W4RI (ARRL) at the AMRAD symposium talking in general about regulatory issues and I learned something new. He says that the basis for amateur radio in Europe does not include any reference to "public service" as it does here in the USA. THus if it is not experimental or just-for-fun, then it is not perceived as "amateur radio" or somewhat milder words to that effect.

If this is true, then I can see somewhat how a European, who views helping out at a public service event is already a "violation" of the rules, would see APRS as a threat. But even Public service events in my opinion I do just for fun too. I guess it depends on what you think is fun...

Would any Europeans coment on this subtlety about how they view "public service" aspects of HAM radio? If the perception over there is different, and even built-into their rules that way, then that might help us to understand each other better...

de WB4APR, Bob

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## 823. [aprssig] TWP Server

From: "bob" <[w2g3zfj@unix.asb.com](mailto:w2g3zfj@unix.asb.com)>  
Date: Sat, 17 Jun 2000 18:10:40 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-91463-2000.06.17-17.15.46--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-91463-2000.06.17-17.15.46--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Hi Folks

Just implemented the TWP aprsdata server on a Citadel, wiring it in to the same vhf rig as the main Winaprs station uses.

Works great!! Well done Bob wb4apr!!

Anyone local (Long Island) please try it out.

73 de bob  
w2/g3zfj

---

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## 824. [aprssig] Re: What are the differences between location and message transmissions?

From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
Date: Sat, 17 Jun 2000 18:22:40 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-91464-2000.06.17-17.26.09--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-91464-2000.06.17-17.26.09--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

> Additional info: some areas had no other stations other than our own. We  
> had a stand-alone tracker with relay,wide,wide (for the end of the  
> pelaton); high powered mobile setup as relay, wide,wide (at the  
> beginning); two stations on high points who had alias of relay and wide

> with a path of relay,wide; and a finish line with a path of  
> relay,wide. This was high mountain country and no other station could be  
> heard. All most all location tracks were received but there were long  
> delays in acking messages.

If I can ramble on some more...

No matter what the network, no matter how far or how many hops. If the probability that a POSIT gets through is P then the probability that an ACKED message gets through is P Squared. When P is anything less than 100%, then message probability falls off very rapidly relative to POSITS. Expect no better.

Further, most times, we dont care about a missed posit or two. In fact, I think most people are happy with say one out of every 3 posits would not be bad... and one in four would even be satisfactory for knowing where the vehicle is. SO lets say the path is 25%. That makes the probability of getting a message through and acked is .25 \* .25 or only .0625. That is TERRIBLE.

Especially if you consider that The Kenwoods and WinAPRS might only send the message 5 times (once a minute)(depending on settings). Thus you might have to send Three Complete messages and all three of them would RETRY 5 times before you even had a chance of getting a single ACK. Thus only one in three messages were successful and they took as much as 18 minutes to deliver.

Again, the APRSdos docs have always said that APRS was not designed for end-to-end acks and that no one should expect MESSAGE performance beyond one hop to be anything but lucky.... We just put them in as a convenience. Thats why APRSdos has decaying retry algorithm so that in the first 2 minutes, it has already tried 5 times before it decays down to the 1 minuet rate...

NOTE HOWEVER. I am talking above about "ACKED MESSAGES". If you send your message in the blind and dont care about an ACK, then the probability of getting the message THROUGH is the same as the posit. But if you are waiting for an ack.. thats when you get lousy performance...

Thats why APRS software is supposed to account for all this stuff, vary the delivery rate and multiply acks to help them out.. etc

bob

---

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---

## 825. [aprssig] RE: [htaprs] Re: The French Resistance

From: "Jacques Voisin" <jvoisin@evcom.net>  
Date: Sat, 17 Jun 2000 18:26:46 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91465-2000.06.17-17.28.16--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi Bob, what you heard about ham not being involved in public services in Europe as we are is correct. There are only around 15,000 ham in France and rules and regulations are a lot tighter than ours, in addition the ham license has to be renewed every year and the fee is around \$50.00 if I remember what my friend David F1PNQ told me. In addition our "friend" thinks a lot of himself and I learned that he worked on the infamous Sputnik which had advertising in it's ID, I wonder how much he got for it!! I asked but did not get an answer!!!  
73's to all

Jacques C. Voisin, N4JCV, AAR4JI  
ARC of Central Florida Comm Chairman  
<http://evcom.net/~jvoisin/n4jcv.htm>  
e-mail: jvoisin@evcom.net

---

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## 826. [aprssig] Re: About Your Website

From: Jim McKenney <w5vyc@worldnet.att.net>  
Date: Sat, 17 Jun 2000 16:00:22 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91466-2000.06.17-17.31.03--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

If you can get a 800 number, use PAY phones to call him. The owner of the pay phone gets \$0.30 from the owner of the 800 number for each call to the 800 number.

Just in case anybody gets an 800 number for a SPAMMER, please share it with the SIG! Then we can all call from our local pay phones.

jim

Mike Yetsko wrote:

> I think there needs to be a VERY VISIBLE and DETECTABLE feedback  
> path. SPAM the group, everyone spreads the word. That's the only way  
> to shut these people down.  
>  
> While I said it wasn't a good idea to send email to them, I DID send my  
> original posting to the email address that was used to post to the  
> group.  
>  
> If I end up getting SPAMed from that, I think I will take other action  
> against  
> them. Just have to see.  
>  
> When the group got SPAMed about a year or so ago for a "FAX" service,  
> it turned out the guy who did it was (I suspect) just a single guy  
> working  
> from his apartment. I got his phone number and pestered the crap out  
> of him (it was a local call) and pretty much was polite but "I would  
> like to  
> know" kind of thing. I think he got QUITE tired of dealing with me!  
>  
> Mike  
>  
> ----- Original Message -----  
> From: Brian P. Mileschsky <n5zgt@swcp.com>  
> To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
> Sent: Tuesday, June 13, 2000 10:22 AM  
> Subject: [aprssig] Re: About Your Website  
>  
> > Is it time perhaps that TAPR does some looking into ways to prevent  
> these  
> > spams from slipping into the mailing list? This is at least the  
> second one  
> > in a week or two. Hopefully it doesn't get worse.  
> >  
> > 73,  
> > Brian, N5ZGT  
> >  
> > ----- Original Message -----  
> > From: Web Host <els@elhost.com>  
> > To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
> > Sent: Monday, June 12, 2000 7:36 AM  
> > Subject: [aprssig] About Your Website  
> >  
> >  
> > > Hello There,  
> > >  
> > > When you host with us, we take care of the domain name and domain  
> > registration. You won't have to go through the hassle of registering a  
> > domain with someone, remembering confusing IP numbers, or setting  
> > anything  
> > up. We do it all for you and we even cover the \$35 registration and  
> > annual  
> > fees. All you have to do is pick the domain name you want. It's  
> > quick.  
> > It's easy.  
> > >  
> > > You receive 10 megabytes of web space for your site. This can be  
> > used for  
> > html, graphics, scripts, anything you need for your personal or  
> > business  
> > site. Need more? We can do that. Contact Elhost with your specific  
> > needs

```

> > and we'll provide a custom and cost-effective solution.
> >
> > > With our easy to use POP email manager, you can set up as many email
> > accounts as you want at your domain. Give email access to your
> employees,
> > friends, family members, or whoever you want! Need more? It's easy!
> > Contact Us.
> > > All for $139 per year.
> >
> > > For More Information Visit Us at http://www.elhost.com
> >
> >
> > > Thank You for your time.
> >
> > > ---
> > > You are currently subscribed to aprssig as: n5zgt@swcp.com
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> >
> >
> >
> > ---
> > You are currently subscribed to aprssig as: myetsko@insydesw.com
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> >
> >
> >
> > ---
> > You are currently subscribed to aprssig as: w5vyc@worldnet.att.net
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```

```

---
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```

---

## 827. [aprssi] Re: Bad Data: Update Sunday 4 June

```

From: "Neil Johnson" <njohnson@interl.net>
Date: Sat, 17 Jun 2000 17:28:02 -0500
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>
Message-ID: <LYR842-91467-2000.06.17-17.31.45--lyris.aprssi#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

I know how it happens cause I've done it my self :)

I bet you are uploading an ascii file containing TNC commands to configure it (beats typing).

But, if you accidentally get your TNC in "Converse Mode" all that data will go out on the air.

Usually once you start the upload it's hard to stop it (buffering and all that).

Like I said it's experience.

```

Neil M. Johnson
njohnson@interl.net
http://www.interl.net/~njohnson
PGP Key Finger Print: 93C0 793F B66E A0C7 CEEA 3E92 6B99 2DCC

```

-----Original Message-----

```

From: Ian Wade <Ian.Wade@care4free.net>
To: TAPR APRS Special Interest Group <aprssi@lists.tapr.org>
Date: Monday, June 05, 2000 3:36 PM
Subject: [aprssi] Re: Bad Data: Update Sunday 4 June

```

```

>In article <LYR14778-88874-2000.06.05-13.53.18--Ian.Wade#care4free.net@l
>ists.tapr.org>, Shirley and Frank Mondt <n0sms@janics.com> writes
>>000PS!!!!!! I have NO EARTHLY Idea How this got into the data Stream.
>>I was having a problem with AprsDigi at the time. I'm Sorry crew. I will
>>try not to have The Igate open when fooling with the Digi Again.
>>

```

```

>
>Frank, please don't think I was picking on you! As I said earlier today
>in another thread, this kind of thing isn't the user's fault -- the APRS
>software is broken, and shouldn't have allowed this to happen.
>
>
>73
>Ian, G3NRW
>Technical Editor, APRS Protocol Specification
>***** Third draft now available *****
>--
>+-----+
>| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
>| email: g3nrw@arrl.net |
>| |
>| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html|
>| APRS DECODER: http://www.netro.co.uk/aprs.htm |
>+-----+
>
>---
>You are currently subscribed to aprssig as: njohnson@interl.net
>To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
>

```

```

---
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```

## 828. [aprssig] MESSAGE functions on MIC!

```

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 17 Jun 2000 18:28:54 -0400 (EDT)
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-91469-2000.06.17-17.33.20--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

D700 owners:

JJ1LYU who designed the D700 reports a method for improved APRS operations from the D700 Microphone:

```

> As you know, the 4 mic PF keys can be configured from the menu.
> If you configure it to one of the keys that are in the F1 group, then it
> will perform as the selected key even in the menu/input mode.
> The F1 group means the proper keys that are displayed after FULL RESET.
> For example, if you set the "PF" key to "CTRL" from menu, then it works
> as the 6th key on the front-panel-bottom row keys.
>
> Thus you can use the PF-CTRL key function as the "OK" key in the
> message input mode. Because in the message input mode, the "OK" key is
> at the 6th key.
>
> If you set the "MR" key to "MUTE" from menu, then it works
> as the 5th key on any menu.
>
> I setup the PF keys as below.
> CALL = LIST
> VFO = MSG
> MR = MUTE
> PF = CTRL
>
> Thus I can control almost all functions in APRS operation.
> I can check the detail information of a station by
> using the "CALL", "UP"/"DOWN", and "PF" keys:
> "CALL" is "LIST"
> "UP/DOWN" key on the MIC chooses the station
> "PF" is "OK"
> And I can use "PTT" for escape because it wont TX.
> I can check and reply message using "VFO", "PF", "UP/DOWN", "PF"
> And "MR" becomes "INS" in the text input mode.
> In this context, remember that DTMF "A" is ->, "B" is <-, "C" is "DEL",
> and "D" is "OK".
>
> So you don't have to touch the display panel.
> Neat.
>
> Hiroto JJ1LYU

```



---

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---

## 829. [aprssig] Re: but seriously folks....

From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
Date: Sat, 17 Jun 2000 18:35:45 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-91470-2000.06.17-17.39.24--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Sat, 17 Jun 2000, Jim Duncan wrote:

> I like the concept of the TWP's but I have one concern:  
>  
> Radio Shack locations being transmitted....  
>  
> Even though I'm not sure that it's a legal issue, I'm not sure if it's  
> appropriate to "advertise" Radio Shack stores on APRS (read: amateur  
> radio)...

At least I didnt put MC for macdonalds. In my opinion, if I am traveling and need a fuse or a connector, or wire or whatever, much as I hate to admit, RS is the only place to get such HAM resources. To me RS is a resource that a HAM travler needs to know about. Now if a RADIO SHACK was transmitting their own POSIT on the air, then THAT is wrong..

bob

---

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## 830. [aprssig] Re: Truncated packets on APRServe

From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
Date: Sat, 17 Jun 2000 18:46:20 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-91472-2000.06.17-17.50.49--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Sat, 17 Jun 2000, Steve Dimse wrote:

> >WIN/MACAPRS IS NOT THE IDEAL VERSION TO RUN HF WITH!!!  
> >  
> I've been using MacAPRS on HF since it was alpha, and I think it is great  
> on HF!

But doesnt it always send posits with all kinds of extra stuff in it like:

```
W3XYZ>APW224,DIGI:=3859.11N/07629.11W$PHG3456WinAPRS ver 224
MDPOOKIPSII<224>-553
```

It seems the default formats I see include the version number THREE times in every posit. In the TOCALL (APW224), in the TEXT, WinAPRS-224- and in the format <224>-553- on the end. ALL in the same packet!

---

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## 831. [aprssig] Re: Disappearing WinAPRS

From: "Mike Knapp" <[knapp@parrett.net](mailto:knapp@parrett.net)>  
Date: Sat, 17 Jun 2000 19:37:10 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-91477-2000.06.17-18.40.12--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

yeah, i ran into this same exact problem quite a bit when i ran WinAPRS v 2.4.5 awhile back. however, i was not using nt, but rather win 2000. win

2000 is based a lot on nt, so that is probably reason as to why it crashes like it does.

73's

Mike Knapp  
KB8UKP

----- Original Message -----

From: "Ray Vaughan" <ray@rayvaughan.com>  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Sent: Friday, June 16, 2000 2:16 PM  
Subject: [aprssig] Disappearing WinAPRS

> Has anyone else experienced this? I'm running WinAPRS 2.4.6 at home on an NT40 computer. Everything is running along just fine when I go to bed, but by morning, WinAPRS is missing. I mean it's not locked up, the program simply isn't running. Not in the task bar. The computer has no applications running. I click on WinAPRS and it comes right up as it normally does when it starts. The key to this might be NT40. Maybe what would have crashed Win9x only crashes the app in NT. Could this be a case of unhandled exceptions again, or do I have something else going on?

>  
> btw, sometime yesterday, I got another one of the unhandled exceptions. Its been much better lately. That was the first one in a few days.

>  
> Thanks.

>  
> Ray J. Vaughan, MS, CBTE, CERT  
> KD4BBM PG-7-15266  
> ray@rayvaughan.com  
> ray@2-way.com  
> http://www.rayvaughan.com/

>  
> ---  
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>

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---

### 832. [aprssig] WX-200m, WinARPS and Baro

From: JD Delancy <w3smd@drix.net>  
Date: Sat, 17 Jun 2000 20:07:29 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91479-2000.06.17-19.14.19--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I have a Radio Shack WX200 connected to a WinAPRS on a NT box. The barometer reading shows at findu.com as 3014 MB. The local reading is 1014 MB. Can anyone tell me why WinAPRS "broadcast" that MB reading and how to fix it?

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### 833. [aprssig] Swim Race Around Manhattan

From: Arte Booten <n2zrc@webspan.net>  
Date: Sat, 17 Jun 2000 21:09:05 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91489-2000.06.17-20.15.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi all,

I awakened at the usual time this morning, took the subway down to Battery Park City (near the south tip of Manhattan) and got on a boat. During the ensuing seven hours and fifty-six minutes I, the boat's skipper and his wife, an official and a "handler" followed a guy in a kayak. He was rowing beside someone that swam, over the course of that time, a total of twenty-six miles, three hundred and eighty-five yards around the island of Manhattan.

Three of the hams on the boats had D7's running on 144.39. Alan

Crosswell (N2YGK, known well on this SIG), Steve Ludewig (WB2KDG, a fellow NYC ARES member) and me filled the maps with our traces. By-and-large, most of the packets seemed to be digipeated, despite the temporary dearth of DIGIs in the NYC area ... the main one we usually use is owned by a VHF contester, and he didn't turn it back on until about noon today.

Yes, I had my home station keep a log of the race. If desired, the APRSDos .HST file I saved, will be sent to you if you ask. I just need to edit out the other mobile stations that were on the air at the time.

FYI, this was this year's version of the same race that Alan Dove (N3IMU) wrote an article about that appears in this month's QST. Also, if you look at that article, you can see a photograph of me. It's the back of my head. This is the third time such a view of me has appeared there ... never my face! If you want to see that (and I can't understand why anyone would ... I see it in the mirror too often for my tastes!), you'll have to do so at an eyeball. One of these years I'll make the pilgrimage to Dayton. And I'd certainly attend the APRS Pizza Bash. This despite the fact that you can't find good pizza west of The Hudson!

73

```
+-----+
|Arte Booten <n2zrc@arrl.net> AEC for Digital Services NYC ARES/RACES|
|Riverdale, NY [FN30bu] APRS Elmer 4052.71N/07354.06WPNHG5370/A=000240|
|PGP Key: D73E B889 C630 6F4A F31F 3083 56BD 0AAD 9996 3B03|
+-----+
```

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---

### 834. [aprssig] Re: WX-200m, WinARPS and Baro

From: Jonathan Kaplan <jonk@jskent.com>  
Date: Sat, 17 Jun 2000 18:26:40 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91490-2000.06.17-20.30.07--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I have the same set-up and the reason that the reading being broadcast is different can be found in the manual. It seems the at the station has two readings: at sea-level and at the station. It may be that the sea-level reading is the reading being broadcast by WinARPS.

73

Jonathan K06XS

At 08:07 PM 6/17/00 -0400, JD Delancy wrote:

>I have a Radio Shack WX200 connected to a WinARPS on a NT box. The  
>barometer reading shows at findu.com as 3014 MB. The local reading is  
>1014 MB. Can anyone tell me why WinARPS "broadcast" that MB reading and  
>how to fix it?

>  
>---

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---

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---

### 835. [aprssig] More ideas for services

From: "Ray J. Vaughan" <ray@rayvaughan.com>  
Date: Sat, 17 Jun 2000 22:38:47 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91502-2000.06.17-21.42.18--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Last night I sat down and wrote down some ideas building on Bob's idea of serving up data to mobile users. Forgive me if some of these are duplicates. I hope some of these ideas will trigger other ideas. Some of these respond with real time data, so the serving station needs to be connected to the net. The basic idea is to give wireless users SOME information they would normally have to get from the Internet. I think you'll find that most of this data is available on the net for free. The hard part is getting the web site viewable data into a short format for transmission.

?NWR: Based on the user's location, return the frequency of the closest NOAA Weather Radio transmitter.  
 Data from here: [http://www.intac.com/~mherson/wx\\_aprs.html](http://www.intac.com/~mherson/wx_aprs.html) This would tell the user where to tune on their radio for weather information.

?4CAST: Based on the user's location, reply with the latest forecast for the area. For example, text from this page: <http://weather.noaa.gov/cgi-bin/iwszone?Sites=:flz074#t1> If there are warnings in effect at the time, then the warning comes before the forecast.

?4CASTxxx: Return same data, but for another city. xxx is the airport mnemonic.

?CP: Return location of nearest station with a CP ICON. Useful for finding the CP at an event or disaster. In fact, this idea can be extended to any type of ICON that someone might need to find, e.g. shelters, hospitals, you get the idea. Since those stations don't beacon very often, it's important that a base station be able to reply, rather than depending on the user's radio memory.

?EVENT: Take the events data being sent on this SIG, add coordinates and a kill date. Get directions to the closest APRS event less than 100 miles away.

?MEET: Same concept as EVENT, but for APRS related meetings, versus events where APRS is in use.

?AP return the name, mnemonic and location of the nearest airport.

?TZ return the local Time Zone

?TIDE return the high/low tide at the nearest port.

?IGATE return location and other information about the nearest IGATE.

?PO location of nearest Post Office

?ATM location of nearest ATM. I tried to get this data a couple years ago and go no where. Maybe someone else knows of a source.

?xxxx This one I don't feel right about, but I'll mention it. xxxx is a stock ticker name. Sending this gets you the delayed price on a stock. Too much of a chance of it being used for profit, so I don't think it would work legally.

?HW location of the nearest hardware super store, maybe Home Depots or Lowes or any small hardware store. There are times when a ham project needs more than a Radio Shack can offer.

I'm sure some of you are thinking of other things that are available on the net. Anyone else having ideas for this?

Ray J. Vaughan, MS, CBTE, CERT  
 KD4BBM PG-7-15266  
<http://www.rayvaughan.com/>  
[ray@rayvaughan.com](mailto:ray@rayvaughan.com)  
[ray@2-way.com](mailto:ray@2-way.com)

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## 836. [aprssig] Re: What are the differences between location and message transmissions?

From: Doug Rich <[doug@safelink.net](mailto:doug@safelink.net)>  
 Date: Sat, 17 Jun 2000 21:06:35 -0600  
 To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
 Message-ID: <LYR842-91508-2000.06.17-22.20.24--lyris.aprssig@lists.tapr.org>  
 Rendered body type: text/plain

At 06:22 PM 6/17/2000 -0400, you wrote:

> > Additional info: some areas had no other stations other than our own. We  
 > > had a stand-alone tracker with relay,wide,wide (for the end of the  
 > > pelaton); high powered mobile setup as relay, wide,wide (at the  
 > > beginning); two stations on high points who had alias of relay and wide  
 > > with a path of relay,wide; and a finish line with a path of  
 > > relay,wide. This was high mountain country and no other station could be  
 > > heard. All most all location tracks were received but there were long  
 > > delays in acking messages.  
 >

>If I can ramble on some more...

>No matter what the network, no matter how far or how many hops. If the  
 >probability that a POSIT gets through is P then the probability that an  
 >ACKED message gets through is P Squared. When P is anything less than  
 >100%, then message probability falls off very rapidly relative to POSITS.  
 >Expect no better.  
 >

>Further, most times, we dont care about a missed posit or two. In fact,  
 >I think most people are happy with say one out of every 3 posits would

>not be bad... and one in four would even be satisfactory for knowing where  
>the vehicle is. SO lets say the path is 25%. That makes the probability  
>of getting a message through and acked is .25 \* .25 or only .0625. That  
>is TERRIBLE.  
>  
>Especially if you consider that The Kenwoods and WinAPRS might only send  
>the message 5 times (once a minute)(depending on settings). Thus you  
>might have to send Three Complete messages and all three of them would  
>RETRY 5 times before you even had a chance of getting a single ACK. Thus  
>only one in three messages were successful and they took as much as 18  
>minutes to deliver.  
>  
>Again, the APRSdos docs have always said that APRS was not designed for  
>end-to-end acks and that no one should expect MESSAGE performance beyond  
>one hop to be anything but lucky.... We just put them in as a  
>convenience. Thats why APRSdos has decaying retry algorithm so that in  
>the first 2 minutes, it has already tried 5 times before it decays down to  
>the 1 minuet rate...  
>  
>NOTE HOWEVER. I am talking above about "ACKED MESSAGES". If you send your  
>message in the blind and dont care about an ACK, then the probability of  
>getting the message THROUGH is the same as the posit. But if you are  
>waiting for an ack.. thats when you get lousy performance...

In review of the screens and log files, this is not the case. Messages were  
not getting through with the same success rate as the posit. Is there  
anything different that could account for that fact that to receive a  
message the transmitting station had to be significantly closer?

>Thats why APRS software is supposed to account for all this stuff,  
>vary the delivery rate and multiply acks to help them out.. etc

>  
>bob

>  
>  
>  
>---

>You are currently subscribed to aprssig as: doug@the-one.com  
>To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

---

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---

### 837. [aprssig] Re: WX-200m, WinARPS and Baro

From: Gerry Creager N5JXS <gerry@cs.tamu.edu>  
Date: Sat, 17 Jun 2000 23:20:03 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91513-2000.06.17-23.24.08--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Jonathan Kaplan wrote:

>  
> I have the same set-up and the reason that the reading being broadcast is  
> different can be found in the manual. It seems the at the station has two  
> readings: at sea-level and at the station. It may be that the sea-level reading  
> is the reading being broadcast by WinAPRS.

Sorry, but a difference of 2000 mb is not consistent with a site on this  
planet!

73, gerry n5jxs

--

|                             |                                            |
|-----------------------------|--------------------------------------------|
| Gerry Creager               | gerry@cs.tamu.edu, gerry@page4.cs.tamu.edu |
| Network Engineering         | Research focusing on                       |
| Computer Science Department | Satellite Geodesy and                      |
| Texas A&M University        | Geodetic Control                           |
| 979.458.4020                |                                            |

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### 838. [aprssig] Re: WX-200m, WinARPS and Baro

From: JD Delancy <w3smd@drix.net>  
Date: Sun, 18 Jun 2000 00:29:27 -0400

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91515-2000.06.17-23.36.20--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Ladies and Gentlemen

William Seffens <wseffens@mediaone.net> said:  
> try the offset for barometric pressure in  
> setting for weather. I have the same setup  
> as yours working with a value of 400 as the  
> offset

That was the answer, Minus 440 and its on the target..

jd

Gerry Creager N5JXS wrote:

>  
> Jonathan Kaplan wrote:  
> >  
> > I have the same set-up and the reason that the reading being broadcast is  
> > different can be found in the manual. It seems the at the station has two  
> > readings: at sea-level and at the station. It may be that the sea-level reading  
> > is the reading being broadcast by WinAPRS.  
>  
> Sorry, but a difference of 2000 mb is not consistent with a site on this  
> planet!  
>  
> 73, gerry n5jxs  
> --  
> Gerry Creager                   gerry@cs.tamu.edu, gerry@page4.cs.tamu.edu  
> Network Engineering               |Research focusing on  
> Computer Science Department       |Satellite Geodesy and  
> Texas A&M University               |Geodetic Control  
> 979.458.4020  
>  
> ---  
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---

### 839. [aprssig] Alaska and APRS

From: "Kent Petty" <kl5t@arrl.net>  
Date: Sun, 18 Jun 2000 0:45:4  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91537-2000.06.18-00.48.34--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

This is just a quick note to all on the SIG that have provided input for our APRS endeavor here in Anchorage. We now have 3 digipeaters up in experimental mode...2 as relays, and 1 as a wide. Today, we demo'd APRS during the Anchorage Mayor's Marathon. There were basically two races...a half-marathon and the full marathon, each on different courses. We put together two mobiles with Kenwood T7Ds in backpacks with guys on bikes. The folks rode as trail sweeps on each course. Overall, it worked pretty good, but I've certainly seen where we need some more relay stations. Unfortunately, the GPS (a Garmin GPS 12) unit on the half-marathon route kept shutting itself off for some reason. I received MANY packets from the station, but with bad/no positions.

There were quite a few hams that got to see the system in action, and I think is stirred some interest. The race organizers also were impressed with the capability. Perhaps next year we can up the ante and provide ATV and APRS up in front of the leaders.

Thanks again to all....more questions coming your way though!

73,

Kent Petty, KL5T  
Alaska Section Manager

---  
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## 840. [aprssig] DWait, PERsist, and SLOttime

From: "Kent Petty" <kl5t@arrl.net>  
Date: Sun, 18 Jun 2000 1:1:19  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91539-2000.06.18-01.04.53--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Would someone be so kind as to point me to a good place to read about the subject commands to help me set up our local RELAY digis to reduce the crash rate? I've played with all of them and although the settings change, I can't detect a change in the delay time between the time the packet is recieved and then digipeated. We're running one KAM All Mode and three 9612s on our network right now as digis. Running around town in my mobile, I've seen a high crash rate, and don't know how "normal" this is. These units are set up with basic "APRS via WIDE,WIDE" unprotos. Two are relays, and one is a WIDE. Any advice (understandable) would be appreciated...please keep it simple!

Thanks....

Kent Petty, KL5T  
Alaska Section Manager

---

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## 841. [aprssig] TYPE 3 Industrial Grade Computer

From: "Scott-KC5JGV" <kc5jgv@arrl.net>  
Date: Sun, 18 Jun 2000 01:02:06 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91541-2000.06.18-01.06.14--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Wonders never cease!

In our pursuit to find more good stuff for the APRS community, we have managed to grab what I am calling a TYPE 3 Industrial Grade Computer. Just like the Citadels, these are monochrome EL(electroluminous (sp?)) and touch screen. But that is where the similarity stops, sort of.

These TYPE 3 systems are P75 (that's 75 MHz Pentium) processor based. They have 4 serial ports, 2 parallel ports, 1 digital IO port, 1- 72 pin SIMM slot and 1 - 10Mb Ethernet port. 3 ISA slots and 1 IDE controller. And the above mentioned EL touch screen display. Also, the cases on these are made of steel, thus the systems are much heavier. And the construction suggests that they are much more capable to handling harsh envornments.

We are looking at asking \$300 each, tested and working for these. There are no hard drives, but there are external power supplies. We are also thinking of offering the following hard drive options, 4GB \$75, 10GB \$100 and the following memory upgrades 32 Mb SIMM \$50, 64 Mb SIMM \$70. Finally we will offer a OS installation for a nominal fee plus the cost of the OS and any custom cards that you may want. Right now this is all preliminary pricing and in no way should be thought of as a final offer. I think we have about 50 of these systems in house and will be making a formal announcement, with best pricing, in the next few days.

We have taken one of these systems and installed Linux and Steve's APRSd software. We have it running in the Harrison AR area. Right now we are testing the software and setup and installing it permanently for 24/7 use. For anyone interested in setting up a IGATE using the APRSd software, we may have found just the hardware you need.

I will be putting the hardware descriptions, pictures, PDF Manual (we do have it) and final prices on my new website when it is completed. These are not Citadels and we are getting better support from the manufacturer.

In other news, I am nearing completion of the www.aprshelp.com website and will have links in the Hardware Page to the Citadels and this TYPE 3 system. The www.aprshelp.com site should be completed by the 20th.

Thanks and have fun with APRS!

Scott

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## 842. [aprssig] WAPRS with USB serial

From: David VanHorn <dvanhorn@cedar.net>  
Date: Sun, 18 Jun 2000 01:09:13 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91542-2000.06.18-01.14.52--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I could use a little help.  
Anyone with working entrega USB serial ports under W98se with WAPRS, please contact me.  
I've done a complete rip and re-install of the machine.  
Latest drivers, latest wapr. s.  
I have two 25 pin adaptors.  
I'm using a KPC-3  
I cannot get the ports running right.

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## 843. [aprssig] Software Developers

From: "Scott-KC5JGV" <kc5jgv@arrl.net>  
Date: Sun, 18 Jun 2000 01:20:54 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91543-2000.06.18-01.33.01--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

OK, APRS software developers! I need those screen shots and any short description that you want on the new [www.aprshelp.com](http://www.aprshelp.com) website. I have several of you that have responded but a few of you haven't come around. I'd hate to not have a screen shot for the users to compare your software to others with. Remember this site is not a site that will promote one software over the other, so please send in your info! If I don't have it, you may not get a fair listing!

Again, please send me a short 3 -4 line introduction to your software and a gif format screen shot!

Thanks  
Scott

---

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## 844. [aprssig] Hardware developers

From: "Scott-KC5JGV" <kc5jgv@arrl.net>  
Date: Sun, 18 Jun 2000 01:25:49 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91544-2000.06.18-01.33.10--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I am looking for any and all information from any of you hardware developers out there. I want to present the hardware available for APRS on the Hardware Page in the [www.aprshelp.com](http://www.aprshelp.com) site. Please send me a short description and a picture of your hardware for the site. I've gotten just about all I can find, but I know there is probably more and I don't want to leave anyone out!

[www.aprshelp.com](http://www.aprshelp.com) is being advertised in QST and other ham radio publications and should be in magazines real soon, so please don't miss YOUR chance to be a part of this project!

Thanks  
Scott



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## 845. [aprssig] APRS websites

From: "Scott-KC5JGV" <kc5jgv@arrl.net>  
Date: Sun, 18 Jun 2000 01:31:19 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91545-2000.06.18-01.34.48--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

APRS website owners, please send me your website address (along with a short description of the theme of your site) for the Links Page on the [www.aprshelp.com](http://www.aprshelp.com) site. This site is your site and I need all the help I can get! Listing your APRS website will be a help to not only me but also the users! Your input will be appreciated.

Thanks  
Scott

---

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## 846. [aprssig] Changing 1st digit of longitude

From: "Kent Petty" <kl5t@arrl.net>  
Date: Sun, 18 Jun 2000 1:34:1  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91546-2000.06.18-01.38.17--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Does anyone possibly have a clue as to why my WinAPRS version 2.4.6 is changing the first digit of beacon station longitudes from a "1" to a "0"? For instance, if the mobile beacons out a position of 6111.59N/14956.34W, WinAPRS is changing it to read 6111.59N/04956.34W. I've restarted the program and rebooted the computer to no avail. It DOES plot positions as provided in the BTEXT beacons of the local digipeaters without a problem.

Thanks,

Kent Petty, KL5T

---

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## 847. [aprssig] SeeU for FindU

From: "Brent Hildebrand" <bhildebrand@earthlink.net>  
Date: Sat, 17 Jun 2000 23:40:54 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91547-2000.06.18-01.45.16--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I have posted the file, SeeU.zip at TAPR's FTP site. See <ftp://ftp.tapr.org/aprssig/winstuff/aprplus>. SeeU uses SQL lookup to FindU's database, and takes the data and plots it into Street Atlas USA. It should work with version SA4,5,6, and 7. There are 2 lookup modes, 1) the Latest Known Position, and 2) Track data. Track data is limited to 100 position points in the last 24 hours. Latest Position is the last known position for your chosen station.

Setup instructions, download the SeeU.zip and unzip the contents to a new directory. Double click on SeeU.exe and the program should start.

There are 4 menu options.

- 1) Connect - makes or breaks connection to FindU.
- 2) Lookup - performs the lookup of position data. You must connect to FindU first.
- 3) Options - Sets various display options for Street Atlas. NOTE: APRS tab is NOT used.
- 4) View - View the data you have downloaded in the Lookup

How to do a Lookup:

- 1) You must have an active Internet connection. Sorry, no proxys.
- 2) Start Street Atlas USA. NOTE: the program defaults to SA7. If you are using a different version, you much change it by selecting the Options menu, then the Map Features tab, and set the SA Version.
- 3) Connect. Click connect to connect to FindU. The status bar will show you progress as the connection proceeds, finally showing you "Ready for Lookup"
- 4) Enter the callsign of the station you want to locate.

5) Click Lookup which has 2 options

a) Track Data which is limited to the last 24 hours and only the last 100 points in the time frame.

NOTE: This can take some time!! You need to be patient with this option

b) Last Known Position will show you the last known position for a station. This is generally very quick.

Map display - The track map will show the track, if any and the callsign of the station, followed by the time since the position was heard. Example:

KH2Z (0:0:1:34)

Meaning: 0 days, 0 hours 1 minute 34 seconds

The Last Known Position will show the callsign and the time with a dot at the location of the station.

This is the first release of this program. I have not tested it on any platform other than Win98. It is supplied AS IS. There is no guarantee made of any kind. Use this program at your own risk.

SeeU should run Win95 (with latest updates from Microsoft), Win98, and WinNT/2000. Again, I have only used it on Win98.

Brent Hildebrand, KH2Z

APRS+SA

<http://www.tapr.org/~kh2z/aprsplus>

FAQ: Does it show Icons? No.

[]

---

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## 848. [aprssig] Re: Changing 1st digit of longitude

From: Ian Wade <[Ian.Wade@care4free.net](mailto:Ian.Wade@care4free.net)>

Date: Sun, 18 Jun 2000 09:33:15 +0100

To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>

Message-ID: <LYR842-91553-2000.06.18-03.37.09--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

In article <LYR14778-91546-2000.06.18-01.38.17--Ian.Wade#care4free.net@lists.tapr.org>, Kent Petty <[kl5t@arrl.net](mailto:kl5t@arrl.net)> writes  
>Does anyone possibly have a clue as to why my WinAPRS version 2.4.6 is  
>changing the first digit of beacon station longitudes from a "1" to a "0"?  
>For instance, if the mobile beacons out a position of 6111.59N/14956.34W,  
>WinAPRS is changing it to read 6111.59N/04956.34W. I've restarted the  
>program and rebooted the computer to no avail. It DOES plot positions as  
>provided in the BTEXT beacons of the local digipeaters without a problem.  
>

If 2.4.6 does that, it's broken.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

\*\*\*\*\* Third draft now available \*\*\*\*\*

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| | |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

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---

## 849. [aprssig] Re: The French Resistance

From: Roger Barker <[roger@peaksys.co.uk](mailto:roger@peaksys.co.uk)>

Date: Sun, 18 Jun 2000 09:59:04 +0100

To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>

Cc: [htaprs@lists.tapr.org](mailto:htaprs@lists.tapr.org)

Message-ID: <LYR842-91554-2000.06.18-04.03.18--lyris.aprssig#tapr.org@lists.tapr.org>

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In article <LYR1643-91461-2000.06.17-16.58.46--ROGER#PEAKSYS.CO.UK@lists.tapr.org>, Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)> writes  
>On Fri, 16 Jun 2000, Larry Zanella wrote:

>  
 >> The Frenchman is precisely wrong. The usage of the ham bands is on the  
 >> decline and...  
 >  
 >Today I listened to Paul Rinaldo W4RI (ARRL) at the AMRAD symposium  
 >talking in general about regulatory issues and I learned something new.  
 >He says that the basis for amateur radio in Europe does not include any  
 >reference to "public service" as it does here in the USA. THus if it is  
 >not experimental or just-for-fun, then it is not perceived as "amateur  
 >radio" or somewhat milder words to that effect.  
 >  
 >If this is true, then I can see somewhat how a European, who views helping  
 >out at a public service event is already a "violation" of the rules,  
 >would see APRS as a threat. But even Public service events in my opinion  
 >I do just for fun too. I guess it depends on what you think is fun...  
 >  
 >Would any Europeans coment on this subtlety about how they view "public  
 >service" aspects of HAM radio? If the perception over there is different,  
 >and even built-into their rules that way, then that might help us to  
 >understand each other better...

First of all, as I commented previously, you shouldn't expand the  
 comments of one person to be representative of anything other than that  
 one person's opinion. So I think this is all very much a storm in a tea  
 cup.

Also, you can't regard European amateur radio as one entity. There are a  
 lot of separate countries over here, each with its own culture and each  
 with its own ham radio regulations. (For instance, when it comes to how  
 packet radio is regulated, there are very significant differences.) The  
 comments that are being made about "Europeans" are roughly the  
 equivalent of me talking about "Americans" in the all-encompassing sense  
 of including both continents.

For what it's worth, our regulations in the UK start with these  
 statements:-

1. (1) The licensee shall use the Station for the purpose of self-  
 training in communication by wireless telegraphy, which use (without  
 limiting the generality of the foregoing) includes technical  
 investigations.

1. (2) The Licensee may use or permit the use of the Station, as part of  
 his self-training in communications by wireless telegraphy, during any  
 operation conducted by a User Service [defined in sub-clause 12(1)(o)]  
 or during any exercise relating to such an operation for the purpose of  
 sending Messages on behalf of the User Service to other licensed amateur  
 stations.

And a "user service" is defined as:-

12. (1)(o) "User Service" means the British Red Cross Society, the St  
 John Ambulance Brigade, the St Andrew's Ambulance Association, the Chief  
 Emergency Planning Officer ... or any United Kingdom police force, fire  
 or ambulance service, health authority, government department or public  
 utility.

So there is certainly an aspect of "public service", but it applies to  
 special/emergency situations.

In terms of restrictions on commercial use, the regulations say:-

3(3) The Licensee shall:

(a) have no pecuniary interest (direct or indirect) in any operations  
 conducted under this Licence; and  
 (b) except as provided by sub-clauses 1(2) and (3) and except in the  
 case of activities on behalf of a non-profit organisation established  
 for the furtherance of amateur radio, not use the Station for business,  
 advertisement or propaganda purposes including (without limiting the  
 generality of the foregoing) the sending of news or messages of, or on  
 behalf of, or for the benefit or information of, any social, political,  
 religious or commercial organisation.

(In interpreting 3(3), the self-appointed "policemen" of UK amateur  
 radio show an unbelievable level of hypocrisy, but that's another  
 story...)

--

Roger Barker, G4IDE - roger@peaksys.co.uk  
For UI-View go to - <http://www.packetradio.org.uk>  
For WinPack go to - <http://www.peaksys.co.uk>

---

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## 850. [aprssig] Re: [htaprs] Re: The French Resistance

From: Carl <carl\_mail@dr.com>  
Date: Sun, 18 Jun 2000 10:11:05 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: htaprs@lists.tapr.org, htaprs@lists.tapr.org, aprssig@tapr.org  
Message-ID: <LYR842-91558-2000.06.18-04.26.32--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> He says that the basis for amateur radio in Europe does not include any  
> reference to "public service" as it does here in the USA. Thus if it is  
> not experimental or just-for-fun, then it is not perceived as "amateur  
> radio" or somewhat milder words to that effect.

I can't speak for Europe <g> but in the UK the essence of the license is that it is for 'self training in wireless communication'. The only public service aspect is that the police may -through a licensed ham- make use of an amateur station.

The emergency radio network (Raynet and I think another one) are quite sophisticated in their organisation, but are still 'hobby' based.

Also we aren't allowed to sell anything via amateur radio - or do any business using the medium.

We have only been able to pass third party greeting messages comparatively recently. Internet hook up requires a specific notice of variation to your license. No phone patches.

(mind you, we dont get many Tornados either, so its not all bad)

73  
Carl gw0tqm  
gw0tqm@iname.com

---

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## 851. [aprssig] Re: The French Resistance

From: Hamish Moffatt <hamish@cloud.net.au>  
Date: Sun, 18 Jun 2000 23:34:12 +1000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91565-2000.06.18-08.37.46--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Sun, Jun 18, 2000 at 09:59:04AM +0100, Roger Barker wrote:  
> 1. (1) The licensee shall use the Station for the purpose of self-  
> training in communication by wireless telegraphy, which use (without  
> limiting the generality of the foregoing) includes technical  
> investigations.

FWIW, the situation is very similar in Australia. From  
<http://www.aca.gov.au/publications/info/amateur.htm>

"The Amateur Service is designed primarily to facilitate hobby radiocommunications and for technical experimentation and operates on specified frequency bands. Amateur radio operators communicate via a number of transmission modes including, but not limited to, morse code, telephony and data. "

Public service exists here but is not as prominent (in my own estimation only) as in the USA. But then we do not have the weather patterns you guys do (eg an annual tornado season).

73  
Hamish  
--  
Hamish Moffatt VK3SB <hamish@debian.org> <hamish@cloud.net.au>

---

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---

## 852. [aprssig] Re: but seriously folks....

From: "David W. Barrow III" <n9unr@execpc.com>  
Date: Sun, 18 Jun 2000 07:56:31 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91566-2000.06.18-08.44.50--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Comes under the "Pizza Rule". As long as you have no financial interest in Radio Shack it is OK.

Dave

Jim Duncan wrote:

>  
> I like the concept of the TWP's but I have one concern:  
>  
> Radio Shack locations being transmitted....  
>  
> Even though I'm not sure that it's a legal issue, I'm not sure if it's  
> appropriate to "advertise" Radio Shack stores on APRS (read: amateur  
> radio)...  
> --  
> 73 de Jim, KU0G  
> Chairman/Coordinator  
> Kansas City APRS Working Group, W0APR  
> First Alert Storm Team KMBC-TV9  
> Mailto:ku0g@kcaprs.org  
> Webpage: http://www.kcaprs.org  
>  
> ---  
> You are currently subscribed to aprssig as: n9unr@execpc.com  
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--

Sincerely,  
David W. Barrow III, d/b/a Stonewall Computer Center  
Amateur Radio License - N9UNR  
email address: n9unr@execpc.com - Web Page:  
http://www.execpc.com/~n9unr/  
"The only thing that good men must do  
- for evil to prevail  
- is nothing"  
Edmund Burke

---

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## 853. [aprssig] Re: DWait, PERsist, and SLOttime

From: "Brian B. Riley" <brianbr@macconnect.com>  
Date: Sun, 18 Jun 2000 10:13:50 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91568-2000.06.18-09.14.23--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

----- Original Message -----

From: "Kent Petty" <kl5t@arrl.net>  
Sent: Sunday, June 18, 2000 12:00 AM

> Would someone be so kind as to point me to a good place to read  
about the  
> subject commands to help me set up our local RELAY digis to reduce  
the  
> crash rate? I've played with all of them and although the settings  
change,  
> I can't detect a change in the delay time between the time the  
packet is  
> recieved and then digipeated. We're running one KAM All Mode and  
three  
> 9612s on our network right now as digis. Running around town in my  
mobile,

> I've seen a high crash rate, and don't know how "normal" this is.  
These  
> units are set up with basic "APRS via WIDE,WIDE" unprotos. Two are  
relays,  
> and one is a WIDE. Any advice (understandable) would be  
> appreciated...please keep it simple!

For starters tell us what you mean by 'crash' - are you talking about  
the digis going belly-up or are you speaking about packet collisions?  
I cannot imagine a healthy KAM or a 9612 going belly-up, so you must  
mean collisions

DWAIT has no bearing on digipeating. DWAIT is automatically 0 in a  
digipeat situation. You need Kantronics firmware in the 8.x region to  
get the functional equivalent to DWAIT in a UI frame digipeat. The  
other parameters should not have been any big deal in such a lightly  
loaded situation as you described. I would suggest that you probably  
had more problems with HTS (hidden transmitter syndrome) than anything  
else.

In this case you should set up your trackers with asynchronous beacon  
rates, say something like you had a lead and a trail tracker for each  
of the two races. Set the two leads for 60 and 65 seconds and the two  
trails for 70 and 75 seconds. Just set that up in a simple spreadsheet  
and you will see that given any one collision they will depart off  
well away from each other rapidly. You shouldn't have more than a  
collision every 15 minutes or so if that, and hardly ever the same two  
colliding in a row.

--  
Brian B. Riley, N1BQ (ex-KA2BQE)  
<<http://www.wulfden.org>>

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## 854. [aprssig] Mysterious icon metamorphosis...

From: Jim Duncan <[ku0g@kcaprs.org](mailto:ku0g@kcaprs.org)>  
Date: Sun, 18 Jun 2000 09:37:50 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-91574-2000.06.18-09.41.30--lyris.aprssig@lists.tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I am having a problem on the system here. It seems that after a couple  
of hours of operation (APRS plus Netscape) that the icons on the task  
bar and desktop mysteriously change to some other icon! I've been  
running the System Resources monitor the past 48 hours to see if there  
seems to be any conjunction of low resources and this event. I have  
found none.

System resources meter shows a deep dip into the yellow range when  
WinAPRS starts up the TCP connection as the machine is starting up. I  
would expect this since the operating system is setting up the initial  
environment.

System resources usually starts at 96% with no programs running.  
WinAPRS takes it down to 84% then Netscape drops it to 82%. Over a ten  
to twenty minute period resources slowly drop to 74% System, 74% User  
and 77% GDI.

Is anyone else experiencing similar operation? Is this potentially  
WinAPRS-related?

Yes, I did re-install Win98 and the problem continues...System has 132  
MB DIMM and 470 MB available on the drive that contains the windows swap  
file...

Suggestions? I'm seriously thinking about building a second machine to  
network to this one to dedicate to WinAPRS. Another site that I  
maintain has been running WinAPRS exclusively and has NEVER crashed (no  
TCP/IP connection, mind you!)...

--  
73 de Jim, KU0G  
Chairman/Coordinator  
Kansas City APRS Working Group, W0APR  
First Alert Storm Team KMBC-TV9  
[Mailto:ku0g@kcaprs.org](mailto:Mailto:ku0g@kcaprs.org)

Webpage: <http://www.kcaprs.org>

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### 855. [aprssig] Re: Field Day Bonus

From: Guy Story <[kc5goi@tapr.org](mailto:kc5goi@tapr.org)>  
Date: Sun, 18 Jun 2000 10:17:21 -0500 (CDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-91575-2000.06.18-10.20.51--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-91575-2000.06.18-10.20.51--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

John, that is basically how I read it. 100 points is not much but is better than nothing. What we could use is for everyone, ARRL member or not, contact the League and voice their opinion on making APRS a fully authorized mode. For some of us it is a repeat of the past 2 years but if people do not speak, nothing will get changed.

73,

Guy Story  
KC5G0I  
[kc5goi@tapr.org](mailto:kc5goi@tapr.org)  
<http://www.kc5goi.net>

---

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---

### 856. [aprssig] Re: Disappearing WinAPRS

From: Guy Story <[kc5goi@tapr.org](mailto:kc5goi@tapr.org)>  
Date: Sun, 18 Jun 2000 10:20:34 -0500 (CDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-91576-2000.06.18-10.24.05--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-91576-2000.06.18-10.24.05--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

When I have witnessed the unhandle exception error occur, Dr Watson never comes up. This is on multiple systems as well.

73,

Guy Story  
KC5G0I  
[kc5goi@tapr.org](mailto:kc5goi@tapr.org)  
<http://www.kc5goi.net>

---

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### 857. [aprssig] How to update KEPS in APRSDATA??

From: "bob" <[w2g3zjfj@unix.asb.com](mailto:w2g3zjfj@unix.asb.com)>  
Date: Sun, 18 Jun 2000 11:27:44 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-91578-2000.06.18-10.32.31--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-91578-2000.06.18-10.32.31--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Hi Folks

Can someone help me, I seem to be having difficulty in updating the keps APRSDATA. Exactly how should it be done?

I have downloaded both the amsat.all and nasa.all files from [amsat.org](http://amsat.org) and placed them in the aprs directory. I then do Input, Keps, option 2 for nasa or 3 for amsat. I enter the path to the file (d:\aprs\amsat.all) and then it responds with

```
A$:K
C$:
E$In Orbit
Error 14 See Trouble.txt hit enter etc etc
```

An help greatly appreciated!!

73 de bob  
w2/g3zfj

PS I have rtfm! astars.txt, aprstk.txt and aprsdata.txt!!

---

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## 858. [aprssi] Aprsdata wx question

From: "bob" <w2g3zfj@unix.asb.com>  
Date: Sun, 18 Jun 2000 11:52:43 -0400  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-91581-2000.06.18-10.57.33--lyris.aprssi@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi Folks

Another aprsdata question. When I do a 'wx' query, the server responds with a object that is my main station (g3zfj), this appears on my d7a(g) and I can see the wx string in the status text on the screen however it does not 'read' the wx values, instead it appears as a course and speed. Anyone else see this?

73 de bob

---

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## 859. [aprssi] Yet another aprsdata question!!

From: "bob" <w2g3zfj@unix.asb.com>  
Date: Sun, 18 Jun 2000 12:09:18 -0400  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-91584-2000.06.18-11.14.08--lyris.aprssi@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi Again

Been testing out the digi query , again using my d7a(g), if I query the server with the message to "QDOS, digi"  
it acks the query and then sends the correct location of my digi (g3zfj-15), status text and phg however it appears on the D7A(g) with the servers callsign (g3zfj-2)? I would have expected it to show as an object from g3zfj-2. In other words the same as the wx query or the RS query responds.

The string sent by the server (g3zfj-2) as captured in the winaprs history list is:

G3ZFJ-2>APRDA4,G3ZFJ-15\*/v;;G3ZFJ-15 \*181551z4047.00NN07303.00W#phg5190  
w2/g3zfj Holbrook WIDE W/R/T

Any ideas?

Winaprs classifies it as an object, maybe its a d7a(g) bug?

Bob  
w2/g3zfj

---

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## 860. [aprssi] APRS Info for Argentina, Maps and activity ???

From: Doug Bade <doug@clecom.com>  
Date: Sun, 18 Jun 2000 13:01:55 -0400  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-91588-2000.06.18-12.05.55--lyris.aprssi@tapr.org@lists.tapr.org>



Rendered body type: text/plain

I received a request from  
<mailto:lu3ubj@infovia.com.ar>lu3ubj@infovia.com.<mailto:lu3ubj@infovia.com.ar>ar,  
Jorge requesting info for his area.. I beleive it to be Argentina from the  
address.. If anyone can help him, please email me or him at that address..  
He seems to be trying to get/use/setup WinAPRS.. I will be glad to pass any  
traffic anyone can send me to help him.. 73, Doug KB8GVQ

---

## 861. [aprssig] Re: Disappearing WinAPRS

From: Ray Vaughan <ray@rayvaughan.com>  
Date: Sun, 18 Jun 2000 14:22:09 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91600-2000.06.18-13.25.43--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 10:20 AM 6/18/00 -0500, you wrote:  
>When I have witnessed the unhandle exception occur, Dr Watson never  
>comes up. This is on multiple systems as well.

On WinNT 4.0, I do get the un-handled exception, but I have to click on OK before Dr. Watson starts.  
Once it runs, it does close the application. The odd thing is that WinAPRS seems to run just fine  
behind the un-handled exception warning. I've run days like that. Of course, I can't do anything  
with it, but it does continue to run as an I-GATE. So far this weekend, I've had at least two  
un-handled exceptions.

The total disappearance of WinAPRS has me stumped. Maybe a REALLY un-handled exception? :)

Ray J. Vaughan, MS, CBTE, CERT  
KD4BBM PG-7-15266  
<http://www.rayvaughan.com/>  
[ray@rayvaughan.com](mailto:ray@rayvaughan.com)  
[ray@2-way.com](mailto:ray@2-way.com)

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## 862. [aprssig] Re: Yet another aprsdata question!!

From: "bob" <w2g3zfj@unix.asb.com>  
Date: Sun, 18 Jun 2000 14:46:44 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: <aprssig@tapr.org>  
Message-ID: <LYR842-91617-2000.06.18-13.51.37--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Thanks Walter, that did the trick with the keps!! I guess that aprsdata  
needs a cr/lf after each line.

As regards the digi format issue, my D7A is the 'G' Model, I guess that its  
a bug in the software.

I also just checked with the D700 in the car and it shows the same  
behaviour, send a query for digi and it sends the servers callsign not the  
digi's.

Interesting!!

73 de bob

-----Original Message-----

From: Walter Holmes <walterh@houston-intranet.com>  
To: 'bob' <w2g3zfj@unix.asb.com>  
Date: Sunday, June 18, 2000 14:26  
Subject: RE: [aprssig] Yet another aprsdata question!!

>I see the same thing on my D7 as well. It works just fine on my D700  
though.

>

>I just sent my D7 in for the G mod. So I am hoping this gets resolved after  
>the mod.

>

>Walter/K5WH

>

> -----Original Message-----

>From: bounce-aprssig-2077@lists.tapr.org

>[mailto:bounce-aprssi-2077@lists.tapr.org] On Behalf Of bob  
>Sent: Sunday, June 18, 2000 11:09 AM  
>To: TAPR APRS Special Interest Group  
>Subject: [aprssi] Yet another aprsdata question!!  
>  
>Hi Again  
>  
>Been testing out the digi query , again using my d7a(g), if I query the  
>server with the message to "QD0S, digi"  
>it acks the query and then sends the correct location of my digi  
(g3zffj-15),  
>status text and phg however it appears on the D7A(g) with the servers  
>callsign (g3zffj-2)? I would have expected it to show as an object from  
>g3zffj-2. In other words the same as the wx query or the RS query responds.  
>  
>The string sent by the server (g3zffj-2) as captured in the winaprs history  
>list is:  
>  
>G3ZFJ-2>APRDA4,G3ZFJ-15\*/v;;G3ZFJ-15 \*181551z4047.00NN07303.00W#phg5190  
>w2/g3zffj Holbrook WIDE W/R/T  
>  
>Any ideas?  
>  
>Winaprs classifies it as an object, maybe its a d7a(g) bug?  
>  
>  
>Bob  
>w2/g3zffj  
>  
>  
>  
>----

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## 863. [aprssi] Re: Yet another aprsdata question!!

From: "Walter Holmes" <walterh@houston-intranet.com>  
Date: Sun, 18 Jun 2000 14:00:59 -0500  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Cc: <aprssi@tapr.org>  
Message-ID: <LYR842-91620-2000.06.18-14.04.44--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The KEPS thing is a bit of a maintenance issue.

I wonder if it would be possible, if the APRSdata machine was online, that it could have an option added to pull the KEPS down each week at a given time, and update the machine auto-magically, instead of the manual process today.

Signed, lazy me  
Walter/K5WH

-----Original Message-----  
From: bounce-aprssi-2077@lists.tapr.org  
[mailto:bounce-aprssi-2077@lists.tapr.org] On Behalf Of bob  
Sent: Sunday, June 18, 2000 1:47 PM  
To: TAPR APRS Special Interest Group  
Cc: aprssi@tapr.org  
Subject: [aprssi] Re: Yet another aprsdata question!!

Thanks Walter, that did the trick with the keps!! I guess that aprsdata needs a cr/lf after each line.

As regards the digi format issue, my D7A is the 'G' Model, I guess that its a bug in the software.

I also just checked with the D700 in the car and it shows the same behaviour, send a query for digi and it sends the servers callsign not the digi's.

Interesting!!

73 de bob

-----Original Message-----

From: Walter Holmes <walterh@houston-intranet.com>  
To: 'bob' <w2g3zfj@unix.asb.com>  
Date: Sunday, June 18, 2000 14:26  
Subject: RE: [aprssig] Yet another aprsdata question!!

>I see the same thing on my D7 as well. It works just fine on my D700  
though.  
>  
>I just sent my D7 in for the G mod. So I am hoping this gets resolved after  
>the mod.  
>  
>Walter/K5WH  
>  
> -----Original Message-----  
>From: bounce-aprssig-2077@lists.tapr.org  
>[mailto:bounce-aprssig-2077@lists.tapr.org] On Behalf Of bob  
>Sent: Sunday, June 18, 2000 11:09 AM  
>To: TAPR APRS Special Interest Group  
>Subject: [aprssig] Yet another aprsdata question!!  
>  
>Hi Again  
>  
>Been testing out the digi query , again using my d7a(g), if I query the  
>server with the message to "QDOS, digi"  
>it acks the query and then sends the correct location of my digi  
>(g3zfj-15),  
>status text and phg however it appears on the D7A(g) with the servers  
>callsign (g3zfj-2)? I would have expected it to show as an object from  
>g3zfj-2. In other words the same as the wx query or the RS query responds.  
>  
>The string sent by the server (g3zfj-2) as captured in the winaprs history  
>list is:  
>  
>G3ZFJ-2>APRDA4,G3ZFJ-15\*/v:;G3ZFJ-15 \*181551z4047.00NN07303.00W#phg5190  
>w2/g3zfj Holbrook WIDE W/R/T  
>  
>Any ideas?  
>  
>Winaprs classifies it as an object, maybe its a d7a(g) bug?  
>  
>  
>Bob  
>w2/g3zfj  
>  
>  
>  
>----  
>You are currently subscribed to aprssig as: K5WH@HOUSTON-INTRANET.COM  
>To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org  
>  
>

---

You are currently subscribed to aprssig as: K5WH@HOUSTON-INTRANET.COM  
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

---

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org  
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

---

## 864. [aprssig] Citadels for Sale

From: "Carter Cogle" <ccogle@bellatlantic.net>  
Date: Sun, 18 Jun 2000 15:15:58 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91627-2000.06.18-14.17.11--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I have two Citadels for sale with DOSAPRS already installed. Both work fine,  
and have the AC Power Supply. One is a 486-50, and the other is a 486-25.  
Included with each will be another 486-50 unit with a presumably good  
motherboard and touch screen (but not guaranteed since the display is bad).

The USPS cracked the displays in these units. I will also include one ISA Hard Disk Controller and Floppy Controller card with each. These are low-profile cards which will fit into the limited space available inside the Citadel. The price for either unit is \$95.00.

They will be well packed and shipped VIA UPS, insured for \$100. Shipping for CONUS is \$15. Postal money order preferred, personal checks will require 10 days to clear before shipment. The first order with a clear payment received gets the 486-50, and the second receives the 486-25. There is virtually no difference in performance and you can probably make it a 50 Mhz unit with the included defective unit.

Email me privately at k4aro@arrl.net

Carter

---

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---

## 865. [aprssig] Re: Disappearing WinAPRS

From: "Joe Pupecki" <jpupecki@ne.mediaone.net>  
Date: Sun, 18 Jun 2000 16:27:21 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91630-2000.06.18-15.30.54--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hello All,

I am running WinAPRS on a Windows 2000 box, version 2.4.6 has been up for over a week straight, without Internet Connection. No problem!!!

Joe  
N1MNU

----- Original Message -----

From: "Mike Knapp" <knapp@parrett.net>  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Sent: Saturday, June 17, 2000 7:37 PM  
Subject: [aprssig] Re: Disappearing WinAPRS

> yeah, i ran into this same exact problem quite a bit when i ran WinAPRS v  
> 2.4.5 awhile back. however, i was not using nt, but rather win 2000. win  
> 2000 is based a lot on nt, so that is probably reason as to why it crashes  
> like it does.

>

> 73's

>

> Mike Knapp

> KB8UKP

>

> ----- Original Message -----

> From: "Ray Vaughan" <ray@rayvaughan.com>  
> To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
> Sent: Friday, June 16, 2000 2:16 PM  
> Subject: [aprssig] Disappearing WinAPRS

>

>

> > Has anyone else experienced this? I'm running WinAPRS 2.4.6 at home on  
> an NT40 computer. Everything is running along just fine when I go to  
bed,

> but by morning, WinAPRS is missing. I mean it's not locked up, the  
program

> simply isn't running. Not in the task bar. The computer has no

> applications running. I click on WinAPRS and it comes right up as it

> normally does when it starts. The key to this might be NT40. Maybe what

> would have crashed Win9x only crashes the app in NT. Could this be a  
case

> of unhandled exceptions again, or do I have something else going on?

>

> > btw, sometime yesterday, I got another one of the unhandled exceptions.

> Its been much better lately. That was the first one in a few days.

>

> > Thanks.

>

```
> > Ray J. Vaughan, MS, CBTE, CERT
> > KD4BBM PG-7-15266
> > ray@rayvaughan.com
> > ray@2-way.com
> > http://www.rayvaughan.com/
> >
> > ---
> > You are currently subscribed to aprssig as: knapp@parrett.net
> > To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
> >
>
>
> ---
> You are currently subscribed to aprssig as: jpupecki@mediaone.net
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
>
```

```
---
You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
```

---

## 866. [aprssig] GPS on KPC-3+

```
From: "nliic Jason Greene" <nliic@qsl.net>
Date: Sun, 18 Jun 2000 21:22:31 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-91643-2000.06.18-20.27.13--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

HI, All. I have set up a stand alone tracker this weekend and I have one major trouble. I have a KPC-3+ with the 8.2 firmware and I can not exit the GPS mode unless I do a hard reset. I can exit any other mode, but not that one.  
Any help would be great.

Jason nliic

```
---
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```

---

## 867. [aprssig] Internet feed errors

```
From: Bill Diaz <billdiaz@megsinet.net>
Date: Sun, 18 Jun 2000 20:33:25 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-91645-2000.06.18-20.37.09--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

Has anyone experienced a WinAprs crash this afternoon or tonite? I was connected to second.aprs.net:10151 and have noticed quite a few packets contain control characters or are otherwise corrupted. The following is a sample of errors logged by AFilter between 6 and 8 PM.

```
Data Ctrl char WB5EZ0-9>APRS/V:@La!35.81NT1041.57W#PHG4630/A=009042 / Pajopk
APRS Digi
Data Ctrl char MD7DPA>APRSW,N7UWX-3,BOAd*/H:=4144.7QN,11149.45-HG0000/WinAPS
24.4 MUTCBC,0
Data Ctrl char
WA9IHL>GPSC/5,WA5IHL-3*,WIDE-3/V:$GPRMC,163209,A,3414n921,N,10547(320,W,000
.0,027.5,180600,010.1,E*6B
ProcessHeader error [invalid]>APW233,W2HE,WX3P*,WIDE:=4306.35N/076
Data Ctrl char KD5ED^-13>APK)01,WA5OHL-3*,WIDE5-2/V:!527
Data Ctrl char N7UV>APW245,GATE,WIDE/H:=3411.58N/11806.48W&PHG5230/Pasadena,
CG, USA -CALAXALTADENA-245-<530>
Data Ctrl char
WA5IH>GPSC75/V:@j@k$GPRMW,162817,A,3414.823,N,10547.317,W,000.0,(27.5,18060
0,010.1,E*69
Data Ctrl char NM4U>ABR813,WIDE,WIDE,WIDE,KC8CON-3,W8GK-10,WIDE:=3:39.96H/07
85628W-Chuck-813-
Data Ctrl char N7UV>APW245/H:@@`@@a=3411.58N/11806.48W&PHG5230/Pasadena, CA,
USA -CALAXALTADENA-245-<530>
Data Ctrl char W5UDO-1>ID,WA5IHL-3*/V:@aW5PDO-1/RURACEE4*W5PDO57/N
ProcessHeader error DIGI:>232339zKim's Terminal Monitoring 147.36 73/88 de Kim
ProcessHeader error IGI:>232339zKim's Terminal M
ProcessHeader error KK-OA-2>AP7243,K5WP-2*,WIDE#:_06182218c179s<0=W002t<85t
ProcessHeader error
KB-WIO-9>GPSMV,[A5IHL-15*,WIDE5-3/V:$GPGGA,221926.00,3629.=0,N,10322.63,W,1,
05,1.5,1656.0,M,-23.2,M,,*6E
```

```
Data Ctrl char K5ELP-1>BEACON/V:@jjfaK5ELP/R WIDEn-n/D ELPASO/A - El Paso,TX !
www.aasg.oom/wwra
ProcessHeader error
WB-LJO>BEACON,WA5IHL-15*,WIDE5-1/V:!S192.b4N/10625.24W-/wb5ljo@dzn.com=N.%.El
Paso,Tx><Sun City ><WTRA><JPARA>
Header error
+C4ZPL-14>APRX46,WA6IHL-3*,WIDE6-7/V:@190311z3503.54N/10418.67Wu071/065/APRS
*/good RMC Fix
Loc range error N7GZT-1>APRS,WIDE,WIDE,RELAY:!325162.62NT07959.17W#PHG5440
Charleston,SC EOC
Loc range error K5KJE-1>APRS199,WA5IHL-3*,WIDE3/V:=3506651N/10620.13W#PHG2250
Mik"jn Zuzax; Monitoring 146.90 and Megalink%
Data Ctrl char
W5SF-2>APRS,K5CQH-1,[A5IHL-3*/V:!3547.13NT10546.92#PHG5 30/A=012040/Tesque APRS
Digi www.urfmsi.org
Data Ctrl char NHCHEP>APRS:NWS-CAA:CORRECTED TO IDENTIFY THIS ADVISORY AS AN
INTERMEDIATE ADVISORY
Header error KB8ZGL-11>BEACON,WIDE3-2 [06/18/00 20:25:42]: <UI>:
Header error KB8ZGL-11>APRS,WIDE3-2 [06/18/00 20:25:43]: <UI>:
Data Ctrl char WA5IHL-8>rEACWN,WB5EKP-1,WA3IHL-5,WA5IHL-15*,TRACE3/V:WA5IHL-8/R
WIDEn-n/D CABALL/A -&ToC,NM "www.urfmsi.org
Loc error VE3NEC 430 5 !430N/07956.40W&PHG5560 S.Ontario GATEway
```

Packets associated with WA5IHL and ElPaso, TX appear in the error log on a regular basis.

KB8ZGL is associated with packets that have MStamp on.

Bill KC9XG

---

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## 868. [aprssi] Tracker errors

```
From: Bill Diaz <billdiaz@megsinet.net>
Date: Sun, 18 Jun 2000 21:01:42 -0500
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>
Message-ID: <LYR842-91651-2000.06.18-21.12.58--lyris.aprssi#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

There have been quite a few truncated NMEA packets from trackers. Each truncated packet is the same exact length with part of the checksum missing.

```
KE4TVT-9>GPSLJ/V:$GPGGA,233916,2730.780,N,08243.075,W,1,09,1.3,13.3,M,-27.1,
M,,*
K4FRQ-14>APRS/V:$GPGGA,234729,2820.854,N,08239.361,W,1,09,1.2,36.8,M,-28.2,M
,,*4
AJ4Y-9>APRS/V:$GPRMC,223325,A,2757.819,N,08152.634,W,004.6,145.0,180600,004.
5,W*
WA7LFT-1>GPSLK:$GPGGA,001406,4148.224,N,10714.273,W,1,06,1.3,2112.5,M,-18.8,
M,,*
KE4BXF-9>GPSLV/V:$GPGGA,023222,2727.628,N,08235.146,W,1,07,1.4,30.3,M,-27.1,
M,,*
```

Bill KC9XG

---

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## 869. [aprssi] Re: GPS on KPC-3+

```
From: Ray Vaughan <ray@rayvaughan.com>
Date: Sun, 18 Jun 2000 22:27:40 -0400
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>
Cc: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>
Message-ID: <LYR842-91653-2000.06.18-21.31.17--lyris.aprssi#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

At 09:22 PM 6/18/00 -0400, you wrote:

```
>HI, All. I have set up a stand alone tracker this weekend and I have one
>major trouble. I have a KPC-3+ with the 8.2 firmware and I can not exit the
>GPS mode unless I do a hard reset. I can exit any other mode, but not that
>one.
>Any help would be great.
```

A couple tricks:

You need to set your com software to send control codes, not use them internally. For example, if you use Hyperterminal, go to Files, Properties, Settings, Terminal Keys. That sends the control C out the serial port rather than trying to do a Copy command.

Send THREE, not 2, not 4 control C, one right after the other. It takes a few tries to get the pace correct.

Try those two things, that usually does the trick.

Ray J. Vaughan, MS, CBTE, CERT  
KD4BBM PG-7-15266  
<http://www.rayvaughan.com/>  
[ray@rayvaughan.com](mailto:ray@rayvaughan.com)  
[ray@2-way.com](mailto:ray@2-way.com)

---

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---

## 870. [aprssig] Re: Internet feed errors

From: Ray Vaughan <[ray@rayvaughan.com](mailto:ray@rayvaughan.com)>  
Date: Sun, 18 Jun 2000 22:32:03 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-91654-2000.06.18-21.35.41--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 08:33 PM 6/18/00 -0500, you wrote:

>Has anyone experienced a WinAprs crash this afternoon or tonite? I was  
>connected to second.aprs.net:10151 and have noticed quite a few packets contain  
>control characters or are otherwise corrupted. The following is a sample of  
>errors logged by AFilter between 6 and 8 PM.

I got a couple this afternoon, but nothing between 6 and 8 PM eastern. A couple yesterday also. Sooner or later we'll figure this out.

Ray J. Vaughan, MS, CBTE, CERT  
KD4BBM PG-7-15266  
<http://www.rayvaughan.com/>  
[ray@rayvaughan.com](mailto:ray@rayvaughan.com)  
[ray@2-way.com](mailto:ray@2-way.com)

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---

## 871. [aprssig] Re: GPS on KPC-3+

From: "Brian P. Mileschosky" <[n5zgt@swcp.com](mailto:n5zgt@swcp.com)>  
Date: Sun, 18 Jun 2000 20:46:03 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-91658-2000.06.18-21.51.41--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> Send THREE, not 2, not 4 control C, one right after the other. It takes  
a few tries to get the pace correct.

BTW, don't hit ENTER after you do the control-Cs. Just do CTRL-C CTRL-C  
CTRL-C, with no Enters. It took me a while to figure that one out. :-)

73.  
Brian, N5ZGT

---

|                                                                                                  |                                               |
|--------------------------------------------------------------------------------------------------|-----------------------------------------------|
| Boy Scouts of America                                                                            | Amateur Radio - N5ZGT                         |
| Eagle Scout 12/6/96                                                                              | ARRL QRP: NorCal #1700 QRP-L #580 AK/QRP #125 |
| ASM - Troop 41                                                                                   | Packet: N5ZGT PBB5, 145.05 MHz                |
| OA Lodge 66                                                                                      | Albuquerque, New Mexico                       |
| Yah-Tah-Hey-Si-Kess <-W-W-W-<                                                                    | Brother, Kappa Sigma Fraternity               |
| Please Visit my Homepage at: <a href="http://www.unm.edu/~brianm">http://www.unm.edu/~brianm</a> |                                               |

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---

## 872. [aprssig] Monitoring on Port 14502

From: "Brent Hildebrand" <bhildebrand@earthlink.net>  
Date: Sun, 18 Jun 2000 20:09:00 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91660-2000.06.18-22.12.38--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

----- Original Message -----

From: Steve Dimse <k4hg@tapr.org>

...

Subject: [aprssig] Re: findu.com - drop impossible callsigns

...

> On 6/13/00 5:14 PM Ray Vaughan (ray@rayvaughan.com) wrote:

> >kd4bbm

> >kd4bbm-6

> >kd4bbm-12

> >kd4bbm-14

> >

> >are the only valid ones. The rest are crap.

...

> in the Miami area. If someone wants to track this down, a good starting

> point is the new port 14502, which tells you the origin of every packet.

> I used to spend hours tracking down things like this, sure glad this

> isn't my problem!

> Steve K4HG>

Well, here is some data monitored off Port 14502. Method of study, each "packet" received was examined for a callsign in the header. If this callsign contained any characters that were not capital letters, numbers or the mid-minus sign, "-", it was flagged along with the packet that immediately preceded the packet which is shown with an asterisk before it.

Station CS1SEL produced more packets then is shown. Only a small representation of this stations are presented. Not all shown packets represent problems. Example below, IGate KB8SHH gated the packet from W8MAP-4, there is no problem with this packet, but the following packet gated by IGate station KE4KUR-2 shows the TNC commands from command mode. The study took place over approximately 15 minutes, data being analyzed by a simple APL workspace function. Repeating, only the FROM callsign was looked at.

Findings:

KE4KUR-2 sends data from TNC command mode. It appears the KUR-2 is using WinAPRS v227.

The sending of TNC commands is apparently common.

In addition to KE4KUR-2 sending TNC commands, there is also KJ7AZ, KA2TOC, K5HAB-1 and WU2Z

IGate station KD5HAD shows a mixture of ?EH and cmd:

KA2TOC line wraps each packet at 80 characters, causing fractured packets.

conclusions: most of the packets such as those showing TNC commands would be ignored by APRS client program. Line wrapping at 80 characters will truncate potentially meaningful data, and this should be corrected.

\*209.18.20.63:KB8SSH <----> W8MAP-4>ID,RELAY\*,WIDE/V:W8MAP-4/R RELAY/D WIDE/N

24.6.61.189:KE4KUR-2 <----> unproto APW227 via WIDE,WIDE,TRACE

\*24.6.61.189:KE4KUR-2 <----> unproto APW227 via WIDE,WIDE,TRACE

24.6.61.189:KE4KUR-2 <----> conv

\*24.6.61.189:KE4KUR-2 <----> conv

24.6.61.189:KE4KUR-2 <----> =3249.33N/07952.31WIPHG2130/WinAPRS 2.4.3 IGATE in the Lowcountry -SCCHAMT.  
PLEA-227-<520>

\*24.6.61.189:KE4KUR-2 <----> =3249.33N/07952.31WIPHG2130/WinAPRS 2.4.3 IGATE in the Lowcountry -SCCHAMT.  
PLEA-227-<520>

24.6.61.189:KE4KUR-2 <----> unproto APW227 via WA4USN-5, WIDE3-3

\*24.26.70.138:KA2TOC <---->

KF4KUL>APRX46/V:@160745z2749.64N/08239.01W\_163/004g005t080r000p000...h11b10144d

24.26.70.138:KA2TOC <----> U2k

\*24.2.94.117:NS8E <----> KC8LCP-13>BEACON,KA9KIM,AA8JR,K1DE-5\*,WIDE/V:!4246.52N/08612.73W\_WX4 Loc Holland  
State Park

24.6.61.189:KE4KUR-2 <----> unproto APW227 via WA4USN-5,KE4KUR-3,WIDE,WIDE

\*24.6.61.189:KE4KUR-2 <----> unproto APW227 via WA4USN-5,KE4KUR-3,WIDE,WIDE

24.6.61.189:KE4KUR-2 <----> conv

\*24.6.61.189:KE4KUR-2 <----> conv

24.6.61.189:KE4KUR-2 <----> =3249.33N/07952.31WIPHG2130/WinAPRS 2.4.3 IGATE in the Lowcountry -SCCHAMT.  
PLEA-227-<520>

\*24.6.61.189:KE4KUR-2 <----> =3249.33N/07952.31WIPHG2130/WinAPRS 2.4.3 IGATE in the Lowcountry -SCCHAMT.  
PLEA-227-<520>

24.6.61.189:KE4KUR-2 <----> unproto APW227 via WA4USN-5, WIDE3-3

\*205.148.236.197:W1GRE <----> KD4HTW-9>APRS,W4NHV-9\*,WIDE3-3/2:!3411.46NN07950.44W#PHG6480 WIDEN-N  
FLORENCE,SC !

63.27.216.129:KD5HAD <----> ?EH

\*212.41.36.194:MB7UIV <----> M1DTA>APRS::M5AEJ :morning simon have anice day{7

63.27.216.129:KD5HAD <---->

cmd:KD5IGV-14>APRS,WIDE3-2:\$GPRMC,063820,A,3150.5271,N,10231.0520,W,000.0,079.1,160600,008.3,E\*6E

\*24.26.70.138:KA2TOC <----> KF4TLJ-9>APRS/V:!2801.57NN08208.77W/ Steve's mobile relay for  
emergency/special

24.26.70.138:KA2TOC <----> use

\*193.137.221.244:CS1SEL <----> CT1DBH-1>ID:[IM58IS]

193.137.221.244:CS1SEL <----> JNOS (TCP/IP) - FTP Server - Name Server - WWW Server

\*193.137.221.244:CS1SEL <----> JNOS (TCP/IP) - FTP Server - Name Server - WWW Server



```

193.137.221.244:CS1SEL <----> CT1DBH.AMPR.ORG - IP: 44.158.27.18
*193.137.221.244:CS1SEL <----> CT1DBH.AMPR.ORG - IP: 44.158.27.18
193.137.221.244:CS1SEL <----> Massama - PORTUGAL
*193.137.221.244:CS1SEL <----> Massama - PORTUGAL
193.137.221.244:CS1SEL <----> AX.25 pBBS = CT1DBH-1 / Node = CT1DBH-8
*12.23.104.112:KJ7AZ <----> KJ7AZ>APW247,TCPIP*:4147.25N/10714.56WIPHG2150/WinAPRS 2.4.7 -WYCARRAWLINS
-247-<530>
12.23.104.112:KJ7AZ <----> =4147.25N/10714.56WIPHG2150/WinAPRS 2.4.7 -WYCARRAWLINS -247-<530>
*24.26.70.138:KA2TOC <----> KS4NS-3>APRS/V:!2636.87NN08152.40W#PHG7460/GULF COAST AREA REPEATER CLUB APRS
DI
24.26.70.138:KA2TOC <----> GI R/W/T
*24.26.70.138:KA2TOC <---->
KF4KUL>APRX46/V:@160748z2749.64N/08239.01W_156/004g005t080r000p000...h11b10144d
24.26.70.138:KA2TOC <----> U2k
*24.26.70.138:KA2TOC <---->
KF4KUL>APRX46/V:@160749z2749.64N/08239.01W_132/004g005t080r000p000...h11b10143d
24.26.70.138:KA2TOC <----> U2k
*24.26.70.138:KA2TOC <----> KF4TLJ>APS199/V:=2801.55N/08208.75W-PHG7050 Steve in Plant City, FL
semrrt@aol
24.26.70.138:KA2TOC <----> .com
*24.26.70.138:KA2TOC <----> WB2WPA-4>APW244/V:=2607.65N/08145.96W#PHG7460/Collier EOC - Station UNMANNED!
-F
24.26.70.138:KA2TOC <----> LCOLNAPLES -244-<530>
*24.26.70.138:KA2TOC <---->
KA2TOC-9>GPSPP/V:$GPRMC,064213,A,2807.404,N,08222.262,W,000.0,360.0,160600,004.
224.26.70.138:KA2TOC <----> ,W*77
*24.26.70.138:KA2TOC <----> KE4UVQ>APW247/V:=2944.45N/08214.21W-PHG6270/Alachua County SKYWARN
-FLALAGAINESV
24.26.70.138:KA2TOC <----> I-247-<530>
*193.137.221.244:CS1SEL <----> CT1NA>ID:
193.137.221.244:CS1SEL <----> JNOS (TCP/IP) ----- SYSTEM SERVER
*193.137.221.244:CS1SEL <----> JNOS (TCP/IP) ----- SYSTEM SERVER
193.137.221.244:CS1SEL <----> =====
*193.137.221.244:CS1SEL <----> =====
193.137.221.244:CS1SEL <----> CT1NA.AMPR.ORG. ----- IP-44.158.27.48
*24.26.70.138:KA2TOC <---->
KF4KUL>APRX46/V:@160751z2749.64N/08239.01W_156/002g005t080r000p000...h11b10143d
24.26.70.138:KA2TOC <----> U2k
*24.26.70.138:KA2TOC <----> KR4YL-10>APRS/V:!2756.00NN08243.19W#PHG5460 Pinellas W-R-FL Clearwater, FL
kr4yl
24.26.70.138:KA2TOC <----> @arrl.net
*24.28.47.109:NA4AR <----> KR4YL-10>APRS,WIDE,WIDE/1:!2756.00NN08243.19W#PHG5460 Pinellas W-R-FL
Clearwater, FL kr4yl@arrl.net
193.137.221.244:CS1SEL <----> JNOS (TCP/IP) - DOMAIN NAME SYSTEM SERVER
*193.137.221.244:CS1SEL <----> JNOS (TCP/IP) - DOMAIN NAME SYSTEM SERVER
193.137.221.244:CS1SEL <----> =====
*193.137.221.244:CS1SEL <----> =====
193.137.221.244:CS1SEL <----> CT1YOL.AMPR.ORG. ----- IP-44.158.27.25
*24.26.70.138:KA2TOC <----> NA4V-3>APRDA4/V:;F029 _160643z5454.05S\12153.66WS197/999/145.85 +2/435.91
-7
24.26.70.138:KA2TOC <----> /R=09868/mode-J
*165.230.133.74:WU2Z <----> W3PHL-3>APRS,K3ATI-11*,WIDE,TRACE:!4005.04NT07529.68W#PHG5540/PARA-Valley
Forge-WIDE Digipeater
208.222.150.140:W0IBM <----> -7/R=09868/mode-J
*24.26.70.138:KA2TOC <---->
KF4KUL>APRX46/V:@160752z2749.64N/08239.01W_181/004g006t080r000p000...h10b10143d
24.26.70.138:KA2TOC <----> U2k
*193.137.221.244:CS1SEL <----> CT1DBH-1>ID:[IM58IS]
193.137.221.244:CS1SEL <----> JNOS (TCP/IP) - FTP Server - Name Server - WWW Server
*193.137.221.244:CS1SEL <----> JNOS (TCP/IP) - FTP Server - Name Server - WWW Server
193.137.221.244:CS1SEL <----> CT1DBH.AMPR.ORG - IP: 44.158.27.18
*193.137.221.244:CS1SEL <----> CT1DBH.AMPR.ORG - IP: 44.158.27.18
193.137.221.244:CS1SEL <----> Massama - PORTUGAL
*193.137.221.244:CS1SEL <----> Massama - PORTUGAL
193.137.221.244:CS1SEL <----> AX.25 pBBS = CT1DBH-1 / Node = CT1DBH-8
*24.26.70.138:KA2TOC <----> KR4YL>APW245/V:=2752.85N/08246.00W-PHG1141/Paul in Largo, FL - kr4yl@arrl.net
IC
24.26.70.138:KA2TOC <----> Q#605259 -FLPINLARGO -245-<530>
*208.222.150.140:W0IBM <----> NA0R>APW245,N0JUP-1,W0MXW-1*,WIDE:>291425 Location: Johnston,Ia
12.23.104.112:KJ7AZ <----> =4147.25N/10714.56WIPHG2150/WinAPRS 2.4.7 -WYCARRAWLINS -247-<530>
*159.19.146.64:KF4ERV-10 <----> N8GWK>APW245,K4DMU-10*,WIDE7-5:=3900.00N/08400.00WZPHG0000/WinAPRS 2.4.5
-245-<520>
172.155.47.230:K5HAB-1 <----> ECHO was OFF
*207.50.44.115:KB5WIO <----> KB5WIO>APW241,TCPIP*:06160645c154s012g021t076r000p000P000h57b10019wU2K
165.230.133.74:WU2Z <----> _06160645c328s000g001t068r000p000P000h99b10103mDAV
*159.19.146.64:KF4ERV-10 <---->
WB9TLH-10>APRS,K4DMU-2*,WIDE5-5:_06160642c000s000g000t070r000p000P000h91b10073uU2K
24.26.70.138:KA2TOC <----> IN-147A -FLPINSEMINOLE-246-<630>
*204.117.8.17:KC4LWI <----> WB4QJ-5>APRS,WIDE,WIDE,WIDE:!3711.08N/08010.03W#PHG5860/WIDE 3960'POOR MTN

```

```
*24.26.70.138:KA2TOC <----> N2MNC-4>APZ033/V:=2751.83N/08243.49W_002/002g002t079r000P000p000h85b10130zRSW
wa4dsy.net:IGATE <----> &PHG9300/Boston HF GATEway doc@mitre.org
*24.26.70.138:KA2TOC <----> WB4PBF-2>APW242/V:=2746.20N/08238.41W_PHG2338/Downtown
St.Pete-PinellasSkywarn
24.26.70.138:KA2TOC <----> wb4pbf@arrl.net -FLPINST.PETER-242-<530>
*24.26.70.138:KA2TOC <---->
KF4KUL>APRX46/V:@160755z2749.64N/08239.01W_137/001g004t080r000p000...h10b10143d
24.26.70.138:KA2TOC <----> U2k
*208.61.144.183:KD4BBM <----> KD4BBM>APW246,TCPIP*:=2554.43N/08020.18WIPHG5030/Miami I-Gate -FLDADMIAMI
LA-246-<630>
208.61.144.183:KD4BBM <----> =2554.43N/08020.18WIPHG5030/Miami I-Gate -FLDADMIAMI LA-246-<630>
*24.26.70.138:KA2TOC <----> KA2TOC>APW246,TCPIP*:=2803.20N/08232.36W-PHG7130/WinAPRS 2.4.0 -FLHILTAMPA
-246-<530>
24.26.70.138:KA2TOC <----> =2803.20N/08232.36W-PHG7130/WinAPRS 2.4.0 -FLHILTAMPA -246-<530>
165.230.133.74:WUZZ <----> _06160649c328s000g001t069r000p000P000h99b10103mDAV
*12.23.104.112:KJ7AZ <----> KJ7AZ>APW247,TCPIP*:=4147.25N/10714.56WIPHG2150/WinAPRS 2.4.7 -WYCARRAWLINS
-247-<530>
12.23.104.112:KJ7AZ <----> =4147.25N/10714.56WIPHG2150/WinAPRS 2.4.7 -WYCARRAWLINS -247-<530>
*209.18.20.63:KB8SSH <----> N9DE>APW243,KG9CN-10,WIDE*/V:=3937.15N/08606.10W/PHG9170/WinAPRS 2.4.3; Bob
Greenwood -INJOHGREENW00-243-<520>
172.155.47.230:K5HAB-1 <----> ECHO was OFF
*24.26.70.138:KA2TOC <---->
KF4KUL>APRX46/V:@160758z2749.64N/08239.01W_139/004g005t080r000p000...h09b10143d
24.26.70.138:KA2TOC <----> U2k
```

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## 873. [aprssig] XAPRS for Linux up on Rutgers

```
From: Mark Sproul <msproul@vger.rutgers.edu>
Date: Sun, 18 Jun 2000 23:20:51 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-91661-2000.06.18-22.26.15--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

Version 0.0.8 of XAPRS is up on Rutgers.

This file is a Windows Zip file that contains the application, and the needed files to go along with it.

For validation number you can use

```
Your Windows validation number
Your Mac validation number
or "XAPRS_BETA"
```

The program is fairly complete, the following is NOT finished

GPS input, it is finished, but not tested

Weather input - NOT FINISHED

DF input - NOT FINISHED

Known problems

The scroll bars do not appear correctly on the lists, as soon as the list window is resized they work OK. This works fine on Solaris but messes up on Linux

Occasionally opening a list window causes it to crash, again this problem does not appear on Solaris

There is a lot that needs to be documented having to do with the serial I/O, refer to the files in the PORTS folder for descriptions

This build is for Linux, you must have Lesstif already installed

<ftp://aprs.rutgers.edu/pub/hamradio/APRS/XAPRS/>

The file is xaprs008.zip and it is 3 megabytes

---

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---

## 874. [aprssi] Re: How to update KEPS in APRSDATA??

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Sun, 18 Jun 2000 23:41:09 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssi@lists.tapr.org>  
Message-ID: <LYR842-91669-2000.06.18-22.45.42--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

That is a memory error. APRSdata is pushing the limits of DOS memory and you just bumped over the limit. Try editing down your CONFIG.SYS to get rid of some FILES or BUFFERS.. or whatever. With APRSdata running, i am using 548K and 87k free. But It gets flakey at anything less..

Bob

On Sun, 18 Jun 2000, bob wrote:

```
> Can someone help me, I seem to be having difficulty in updating the keps
> APRSDATA. Exactly how should it be done?
>
> I have downloaded both the amsat.all and nasa.all files from amsat.org and
> placed them in the aprs directory. I then do Input, Keps, option 2 for nasa
> or 3 for amsat. I enter the path to the file (d:\aprs\amsat.all) and then it
> responds with
>
> A$:K
> C$:
> ES$In Orbit
> Error 14 See Trouble.txt hit enter etc etc
>
> An help greatly appreciated!!
>
> 73 de bob
> w2/g3zfj
>
> PS I have rtfm! astars.txt, aprstk.txt and aprsdata.txt!!
>
>
>
> ---
> You are currently subscribed to aprssi as: bruninga@nadn.navy.mil
> To unsubscribe send a blank email to leave-aprssi-842K@lists.tapr.org
>
>
```

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org  
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060  
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>  
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>  
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

---

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## 875. [aprssi] Re: Yet another aprsdata question!!

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Sun, 18 Jun 2000 23:47:37 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssi@lists.tapr.org>  
Message-ID: <LYR842-91671-2000.06.18-22.51.39--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I think you have APRSdata in COMPRESSED Mode. It MUST be in NORMAL mode because only the new D7(G) can display OBJECTS in COMPRESSED Mode. The packet you are showing from WinAPRS is in "NORMAL" format, but I think it might be AFTER Winaprs has already expanded it. In APRSdata, hit the TAB key and look at your control panel. If it has COMP or CMP in the red box,

then it is in compressed mode. Hit alt-S-M-NORMAL and then alt-S-SAVE to make sure it remembers it.

bob

This could also explain your WX problem..

bob

On Sun, 18 Jun 2000, bob wrote:

```
> Hi Again
>
> Been testing out the digi query , again using my d7a(g), if I query the
> server with the message to "QD0S, digi"
> it acks the query and then sends the correct location of my digi (g3zfy-15),
> status text and phg however it appears on the D7A(g) with the servers
> call sign (g3zfy-2)? I would have expected it to show as an object from
> g3zfy-2. In other words the same as the wx query or the RS query responds.
>
> The string sent by the server (g3zfy-2) as captured in the winaprs history
> list is:
>
> G3ZFJ-2>APRDA4,G3ZFJ-15*/v:;G3ZFJ-15 *181551z4047.00NN07303.00W#phg5190
> w2/g3zfy Holbrook WIDE W/R/T
>
> Any ideas?
>
> Winaprs classifies it as an object, maybe its a d7a(g) bug?
>
>
> Bob
> w2/g3zfy
>
>
> ---
> You are currently subscribed to aprssig as: bruninga@nadn.navy.mil
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>
>
```

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org  
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060  
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>  
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>  
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

---

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## 876. [aprssig] Re: Yet another aprsdata question!!

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Sun, 18 Jun 2000 23:56:44 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>, aprssig@tapr.org  
Message-ID: <LYR842-91676-2000.06.18-23.00.17--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Sun, 18 Jun 2000, Walter Holmes wrote:

```
> The KEPS thing is a bit of a maintenance issue.
>
> I wonder if it would be possible, if the APRSdata machine was online, that
> it could have an option added to pull the KEPS down each week at a given
> time, and update the machine auto-magically, instead of the manual process
> today.
```

APRSdata can exchange keps over the air with any other APRSdata station. And be configured to update every PC on 144.39. It does this in NASA ONE-LINE format so that each satellite only takes ONE packet. My idea is that APRSdata will send ONE new satellite KEP every hour. Thus only one packet per hour on the network, yet it will update every PC with new keps once a day.

Even for mobiles that only monitor say an hour a day, if they got only one satellite KEP update per day, then they would still never be more than about 3 weeks out of date. And for all amateur satellites except for SHUTTLE and MIR, once a month is more than adequate.

THaanks for the reminder, though. I need to add QDOS KEPS as a query, so you can request an update.

Yes, the SYSOP still has to download new keps, but once a week is a waste of time for satellites that we are using OMNI's for. Even after a month, the predictions will still be well within a minute

Not to say your idea is not a great one... it will just be low priority for a while. But anyone with a WINDOWS machin and access to the internet, should be able to do it in seconds...

bob

---

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### 877. [aprssig] Trimble GPS TAIP Protocol Translator

From: "Joel Harrington" <n7lf@earthlink.net>  
Date: Sun, 18 Jun 2000 21:25:41 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91687-2000.06.18-23.29.33--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Is anyone aware of a Trimble ASCII Interface Protocol (TAIP) to NMEA-0183 GPS sentence string translator? I am aware of the Byonics GST-1 & GST-2 translators (<http://www.byonics.com/index.html>) for the Rockwell Binary format, as used in the DeLorme Earthmate and Sony SkyMap GPS receivers, but have found nothing for TAIP to NMEA translator/converter.

73,

Joel - N7LF  
Corbett, OR

---

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### 878. [aprssig] long journey

From: "Roger Rockwell" <wb4tr@usa.net>  
Date: Mon, 19 Jun 2000 1:6:21  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91718-2000.06.19-01.09.58--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Good day to all.  
The events of DAY 4 have now been posted with todays pictures.  
<http://www.qsl.net/k1pns>

Thanks to all that have sent well wishes via email  
73's until tomorrow.  
Roger

---

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---

### 879. [aprssig] DIGI\_NED 0.1.2

From: "Henk de Groot (EMN)" <Henk.de.Groot@emn.ericsson.se>  
Date: Mon, 19 Jun 2000 10:13:09 +0200  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91721-2000.06.19-03.34.19--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hello SIG community,

Yesterday I released a new version of DIGI\_NED with Tiny-Web-Pages functionality. Here is a part of the announcement posted to

APRS@DL, APRS@EU and APRS@WW. Most of you here already know this feature from Bob's program, although my implementation is slightly different.

If you don't know what DIGI\_NED is, it is a dedicated digipeater, does not have a GUI but is very stable and good at its job (If you disagree, tell me what's wrong and I fix it...). It runs in DOS on cheap 286 class PC's (or better and maybe even XT's) and on Linux using all kind of modems, from cheap BayCom/BayPack and YAM modem to KISS TNC's and SCC cards. It can have up to 8 ports so can also act as a cross-band digipeater. The source is published under the GPL licence.

As usual the version is posted on APRS7@NLDNET as DNEXE012.ZIP and DNSRC012.ZIP. It will be available on the web as soon as PE1MEW has the time to do it on:

<http://www.homepages.hetnet.nl/~remko>  
<http://home.hetnet.nl/~remko>  
[http://connect.to/digi\\_ned](http://connect.to/digi_ned)

This time a functionality enhancement. It is possible now to add queries on which DIGI\_NED can give a response. With this feature you can tell visitors in your area for example what the nearby voice repeater call is and what its QRG is; which nets do exist in the area, when they are held and where; what the most used QRG's are etc. But also you can pin-point interesting locations like in our area palace 'Het Loo' or monkey zoo 'de Apenheul' to name an example.

If the digi is PE1DNN-2 then you can send an APRS message to PE1DNN-2 with as contents for example 'bbs'. The digi will send the name and QRG of the packet BBS near the digi back to you. Or you send 'police' and the DIGI sends a beacon with the position of the nearby police station. So if you are visiting our national park 'de Veluwe' and you want some fast food then send the nearby digi "fast" and the position of the local Mc Donalds restaurants are transmitted.

Think about what you could gain if you are in an unknown area. This could be a valuable source to get you started and meet other hams and interesting places! All messages are formatted for use with a TH-D7E/A/G, to with only this hand-held you can find your way if the digi in the area supports this! You can define your own to match your area. Your imagination is the limit. The command "help" will guide you to most commands. The command "list" lists them all, but that's all configurable.

Bob Bruninga, inventor of APRS, calls this "Tiny-Web-Pages". The DIGI\_NED implementation is slightly different, messages are addressed to the digipeater instead of an pseudo-address 'QDOS'. From the digi-beacons you can see which digipeater is near to you and should handle your requests. Questions to the digi can be prefixed with an '?' to match the APRS specification, but this is optional.

Furthermore the sysop can send these questions using the keyboard and in DOS he can open a shell to change the beacon and message query/response without having to stop DIGI\_NED.

Review the Changes.txt file in the package to see what changes were made in this and previous versions.

APRS[tm] is a Trademark of Bob Bruninga,  
his home page is at "<http://web.usna.navy.mil/~bruninga/aprs.html>"

Kind regards,

Henk.

--

#####  
The difference between theory and practice in practice is bigger than the difference between theory and practice in theory.

Henk de Groot | Tel: +31 53 4505400 Ext: 5400  
<Henk.de.Groot@emn.ericsson.se> | Ericsson Business Mobile Networks

---

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## 880. [aprssig] DIGI\_NED's TWP example

From: "Henk de Groot (EMN)" <Henk.de.Groot@emn.ericsson.se>  
Date: Mon, 19 Jun 2000 10:21:12 +0200  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91723-2000.06.19-03.44.39--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hallo TWP users,

To give a sneak preview of how you can implement queries and responses in the DIGI\_NED digipeater here is the sample file I included.

If you are really in a hurry drop me a line and I will send the new executable or source (indicate what you want). I don't think it will take long before the new version appears on the web though.

Okay, here is is. Isn't that easy?

Kind regards,

Henk.

digi\_ned.mes:

```
-----
#
# Copyright (C) 2000 Henk de Groot - PE1DNN
#
# This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software
# Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
# Please note that the GPL allows you to use the driver, NOT the radio.
# In order to use the radio, you need a license from the communications
# authority of your country.
#
#-----
#
# This file contains auto-reply strings for simple text reponses.
#
# Here you can define additional queries to complement with build in
# queries. The only queries which are build-in are the queries which
# return a runtime-dependent reply string. All queries which have
# static textst are defined in this file.
#
# %d will be replaced by the digipeater call
# %o will be replaced by the digi owner call
# %v will be replaced by the DIGI_NED version
# %b will be replaced by the DIGI_NED boot-time
# %p will be replaced by the number of active ports
#
# Syntax is simple, each query starts with an ?, the lines following it
# up to the next query is the response, empty lines and lines starting
# with '#' are ignored. Lines stating with ';' are transmitted as
# "objects", not # as messages. Lines with ')' are transmitted
# as "items", also not as messages.
#
# The '\\' character can be used as 'escape'. If you want your
# message to start with '?', '#' or ')'. If you want the message
# to start with a '\\' character then use "\\".
#
# Aliasses for the same query can be specified, for example
# ?help|h responds to query "?help" and shortcut "h".
# On all queries the ? is optional, so you can also use "help"
# and "h" with the above example (same applies to the build-in
# queries like "mheard" etc). IMPORTANT: query strings shall
# be lowercase, the user can use mixed case when he queries
# DIGI_NED.
#
# The query that only consists of one '?' is a special one since
```

```

# this the response for this query is also the default reply on
# any query that doesn't match.
#
# Lines, query lines and answers, can be up to 67 characters,
# longer lines will be truncated In this example file I alligned
# the messages to nicely fit on the 12 character THD7 screen
#
# It is strongly recommended to keep these basic entries like ?help
# ?digi, ?voice, ?bbs etc. so new people on the move which enter
# your system can guess what to expect without having to dig through
# the help first. I take a risk here by allowing you to make changes,
# please think about the mobile and stations not familiar with your
# neighborhood and area. I think they will appreciate to find
# the commands ?voice and ?net to work to make initial contact
# with you!
#

#
# Group 0, Help information
#
# Help text that should lead to all the other commands
#
# ? is also the default text which is returned if no valid command
# was found.
?
Use "help" for topics

?help|h
Use: help1 help2..7 or use "list" for all

#
# Help sub division
#
?help1|h1
H1: type id up ver

?help2|h2
H2: ping? aprs? aprsd aprst aprsm

?help3|h3
H3: ports mheard

?help4|h4
H4: voice net local

?help5|h5
H5: bbs dx lap digi

?help6|h6
H6: event

?help7|h7
H7: object (last topic)

#
# List all possible commands
#
?list
List without ? prefix (15 lines)
aprs aprs? aprsd aprsm aprst bbs boot city
digi dx event f fast food gem gemeente
h h1 h2 h3 h4 h5 h6 h7 ham help help1
help2 help3 help4 help5 help6 help7 hos
hosp hospital hotel i id inf
item items junk keizer lap list loc local
mc med medium mh mheard motel name
net nets ns obj object objects owner
p packet palace paleis phone
ping? pol police politie port ports
qso qual quality r rec recr relay
ronde rondes rs sh shop shops test theater
theatre train tst type uhf up valk
ver version vhf voice vvv ziek
ziekenhuis zoo

#
# Group 1, about the digi itself
#
?type

```



```

DIGI_NED: by PE1DNN

?id|name|owner
Digi name   %d
Digi owner   %o

?up|boot
Up since:    %b

?ver|version
Ver: %v

#
# Group 2, APRS responses
#
# All handled internally
#
# Commands from the APRS specification
#

#
# Group 3, Port and heard information
#
# Active ports on this digi and heard direct stations
#
?ports|port|p
Digi has %p port(s)

?mheard|mh
Use "mheard <port>" or use "mheard <call>"

?mheard <port>|mh <port>
<port> is a number (1-8) Example: mheard 1

?mheard <call>|mh <call>
<call> is a call, e.g. use mheard pe1dnn-2

#
# Group 4, Local information
#
# 6 letter name of the net, weekday, time and QRG - in this example
# a voice repeater which can be found with the ?voice command.
#
?net|nets|ronde|rondes
Koffie ZON 11:00@PI3APD
PI4APD ZON 20:00@PI3APD
PI4SDH DON 21:15@PI3APD

# Voice repeaters
?voice|phone|relay|r
PI3APD 2m 145.725 -0.6
PI4APD 70cm 430.150 +1.6

?vhf
PI3APD 2m 145.725 -0.6

?uhf
PI4APD 70cm 430.150 +1.6

# Local frequently used QRG's
?local|loc|qso
145.250/.375/.475/.525

#
# Group 5, Packet access information
#
# Starting points for traveling packeteers
#
?bbs|packet
PI8APD 2m 144.9375
PI8APD 70cm 430.8375

?dx
PI8DXW via PI1VRZ (lap)
PI7DXW voice 433.925

?lap
PI1VRZ 9k6 431.000
PI1VRZ 1k2 4k8 430.675

```

```

?dig|aprs
PE1MEW-2 at 2.9km South
PD0JEY-2 at 24.6km North

#
# Group 6, Event information
#
# Events taking place in your area
#
?event
EK2000 Champ Soccer 2000

#
# Group 7, Item information
#
# Important objects in your area
#
# See APRS specification 30 April 2000 page 56 for message format
#
# Warning: maximum length is 67 bytes!
#
?object|objects|obj|item|items
\hosp pol i rec f city shop train

?hosp|hosp|hospital|ziek|ziekenhuis
;JULIANA *010000z5213.00N/00556.82Eh000/000/Juliana Hospital
;LUCAS *010000z5210.87N/00556.85Eh000/000/Lucas Hospital

?pol|police|politie
;POLICE *010000z5212.90N/00557.28E!000/000/Police Station

?i|inf|vvv
;VVV-APELD*010000z5212.78N\00558.05E?000/000/Tourist Informat.

?recr|rec|zoo|palace|paleis|theatre|theater
;APENHEUL *010000z5212.90N100555.18E0000/000/Zoo De Apenheul
;JUL-TOREN*010000z5213.63N200554.93E0000/000/Juliana toren
;HET-LOO *010000z5214.03N300556.72E0000/000/Paleis "Het Loo"
;ORPHEUS *010000z5213.17N400557.23E0000/000/Schowburg Orpheus

?shop|shops|sh|ham|rs
;VAN-ESSEN*010000z5212.68N\00558.41Eh000/000/Van Essen
;DISP-ELEC*010000z5212.76N\00557.87Eh000/000/Display Elektr

?city|gem|gemeente
;CITYHALL *010000z5212.93NC00557.80E0000/000/City Hall Apeldoorn

?train|ns
;NS-RAIL *010000z5212.57N/00558.10E=000/000/NS Train Station

?f|food
what: fast med quality

?fast|mc|junk
;MCDON-CEN*010000z5212.75N\00557.82ER000/000/MC Donald Center
;MCDONA-A1*010000z5210.77N\00559.13ER000/000/MC Donald South

?med|medium|valk|motel
;CANTHAREL*010000z5210.36N\00554.43ER000/000/Motel de Cantharel

?qual|quality|keizer|hotel
;KEIZERSKR*010000z5213.80N/00556.66EH000/000/Hotel de Keizerskr

#
# Group 8, Miscellaneous, testing
#
# Used for bound check and THD7 display test
#
?test|tst
123456789012345678901234567890123456789012345678901234567
Line numbr 1Line numbr 2Line numbr 3Line numb <- THD7 screen
;OBJECT1 *010000z5213.61N/00600.00E0000/000/Line num 1Line num 2

-----

--
#####
The difference between theory and practice in practice is bigger than

```

the difference between theory and practice in theory.

Henk de Groot | Tel: +31 53 4505400 Ext: 5400  
<Henk.de.Groot@emn.ericsson.se> | Ericsson Business Mobile Networks

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### 881. [aprssig] Re: but seriously folks....

From: "Henk de Groot (EMN)" <Henk.de.Groot@emn.ericsson.se>  
Date: Mon, 19 Jun 2000 11:12:31 +0200  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91728-2000.06.19-04.55.25--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> From: Bob Bruninga [mailto:bruninga@nadn.navy.mil]  
> At least I didnt put MC for macdonalds. In my opinion, if I

I did in my sample file, 2 of them :-). But I also included 2 other  
places to get some food... HAMs get hungry after a fox-hunt to find  
their way to a shop to buy a connector...

Kind regards,

Henk.

---

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### 882. [aprssig] RE: Swim Race Around Manhattan

From: "Henk de Groot (EMN)" <Henk.de.Groot@emn.ericsson.se>  
Date: Mon, 19 Jun 2000 11:18:44 +0200  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91730-2000.06.19-04.58.07--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> -----Original Message-----  
> From: Arte Booten [mailto:n2zrc@webspan.net]  
>  
> This despite the fact that you can't find good pizza west  
> of The Hudson!

Time to add a ?pizza query to the Tiny-Web-Pages on the  
systems in those ares. You could have asked its location  
if it exists...

Kind regards,

Henk.

---

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---

### 883. [aprssig] Looking for Internet site that can display vehicle tracking data.

From: "Michael Francoeur" <n1naf@mint.net>  
Date: Mon, 19 Jun 2000 07:20:39 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91740-2000.06.19-06.22.22--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Is there a website on the net that can display the entire track of vehicles  
as opposed to their last reported location?

- Mike (N1NAF)

---

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---

### 884. [aprssig] RE: Swim Race Around Manhattan

From: "Brian B. Riley" <brianbr@macconnect.com>  
Date: Mon, 19 Jun 2000 07:35:20 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91743-2000.06.19-06.35.56--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Well then there should be a ?DD for the nearest Dunkin Donuts for  
ham/cops!

--  
Brian B. Riley, N1BQ (ex-KA2BQE)  
<<http://www.wulfden.org>>

----- Original Message -----

From: "Henk de Groot (EMN)" <Henk.de.Groot@emn.ericsson.se>  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Sent: Monday, June 19, 2000 5:18 AM  
Subject: [aprssig] RE: Swim Race Around Manhattan

> > -----Original Message-----

> > From: Arte Booten [mailto:n2zrc@webspan.net]

> >

> > This despite the fact that you can't find good pizza west

> > of The Hudson!

> >

> > Time to add a ?pizza query to the Tiny-Web-Pages on the  
> > systems in those ares. You could have asked its location  
> > if it exists...

> >

> > Kind regards,

> >

> > Henk.

> >

> >

> >

> > ---

> > You are currently subscribed to aprssig as: brianbr@macconnect.com

> > To unsubscribe send a blank email to

> > leave-aprssi-842K@lists.tapr.org

> >

---

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---

## 885. [aprssig] Re: Yet another aprsdata question!!

From: "bob" <w2g3zffj@unix.asb.com>  
Date: Mon, 19 Jun 2000 07:40:10 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91745-2000.06.19-06.41.29--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi Bob

I will check the format that aprsdata is in tonight. However, I WAS using  
the D7A(G) and it also behaved the same on my D700 in the car which makes me  
think that it may be a bug somewhere.

On another point, I notice on the D7A(G) and D700 displays my server appears  
with the message 'Moving'. Although I checked and I have no course or speed  
entered when I set the position.

73 de bob  
w2/g3zffj

-----Original Message-----

From: Bob Bruninga <bruninga@nadm.navy.mil>  
To: bob <w2g3zffj@unix.asb.com>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Date: Sunday, June 18, 2000 23:38  
Subject: Re: [aprssig] Yet another aprsdata question!!

>I think you have APRSdata in COMPRESSED Mode. It MUST be in NORMAL mode  
>because only the new D7(G) can display OBJECTS in COMPRESSED Mode. The

```

>packet you are showing from WinAPRS is in "NORMAL" format, but I think it
>might be AFTER Winaprs has already expanded it. In APRSdata, hit the TAB
>key and look at your control panel. If it has COMP or CMP in the red box,
>then it is in compressed mode. Hit alt-S-M-NORMAL and then alt-S-SAVE to
>make sure it remembers it.
>
>bob
>
>This could also explain your WX problem..
>
>bob
> On Sun, 18 Jun 2000, bob wrote:
>
>> Hi Again
>>
>> Been testing out the digi query , again using my d7a(g), if I query the
>> server with the message to "QDOS, digi"
>> it acks the query and then sends the correct location of my digi
(g3zffj-15),
>> status text and phg however it appears on the D7A(g) with the servers
>> callsign (g3zffj-2)? I would have expected it to show as an object from
>> g3zffj-2. In other words the same as the wx query or the RS query
responds.
>>
>> The string sent by the server (g3zffj-2) as captured in the winaprs
history
>> list is:
>>
>> G3ZFFJ-2>APRDA4,G3ZFFJ-15*/v::G3ZFFJ-15 *181551z4047.00NN07303.00W#phg5190
>> w2/g3zffj Holbrook WIDE W/R/T
>>
>> Any ideas?
>>
>> Winaprs classifies it as an object, maybe its a d7a(g) bug?
>>
>>
>> Bob
>> w2/g3zffj
>>

```

---

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## 886. [aprssig] Re: How to update KEPS in APRSDATA??

```

From: "bob" <w2g3zffj@unix.asb.com>
Date: Mon, 19 Jun 2000 07:42:16 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-91746-2000.06.19-06.41.36--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

Hi Bob

I will try this tonight, however, I got another message saying that the nasa.all or amsat.all files should be in text format i.e. with a cr/lf as a line terminator. I tried this and I got no errors.....

73 de bob

w2/g3zffj

-----Original Message-----

```

From: Bob Bruninga <bruninga@nadn.navy.mil>
To: bob <w2g3zffj@unix.asb.com>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Date: Sunday, June 18, 2000 23:32
Subject: Re: [aprssig] How to update KEPS in APRSDATA??

```

```

>That is a memory error. APRSdata is pushing the limits of DOS memory and
>you just bumped over the limit. Try editing down your CONFIG.SYS to get
>rid of some FILES or BUFFERS.. or whatever. With APRSdata running, i am
>using 548K and 87k free. But It gets flakey at anything less..
>
>Bob

```

```

>
>
> On Sun, 18 Jun 2000, bob wrote:
>
>> Can someone help me, I seem to be having difficulty in updating the keps
>> APRSDATA. Exactly how should it be done?
>>
>> I have downloaded both the amsat.all and nasa.all files from amsat.org
and
>> placed them in the aprs directory. I then do Input, Keps, option 2 for
nasa
>> or 3 for amsat. I enter the path to the file (d:\aprs\amsat.all) and then
it
>> responds with
>>
>> A$:K
>> C$:
>> ES$In Orbit
>> Error 14 See Trouble.txt hit enter etc etc
>>
>> An help greatly appreciated!!
>>
>> 73 de bob
>> w2/g3zgj
>>
>> PS I have rtfm! astars.txt, aprstk.txt and aprsdata.txt!!
>>
>>
>>
>> ---
>> You are currently subscribed to aprssig as: bruninga@nadm.navy.mil
>> To unsubscribe send a blank email to leave-aprssi-842K@lists.tapr.org
>>
>>
>
>APRSDos REPLY/COMMENT:
>
>Reply mail addr:   wb4apr@amsat.org
>US mail address:   115 old Farm Ct, Glen Burnie, MD 21060
>See DAYTON97 HISTORY:   http://web.usna.navy.mil/~bruninga/dayton.html
>See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
>See GPS on ANY radio:   http://www.tapr.org/tapr/html/mic-e.html
>
>

```

```

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```

---

### 887. [aprssi] RE: aprssi digest: June 18, 2000

```

From: Jamie Hutches <kd5gob@ipa.net>
Date: Mon, 19 Jun 2000 07:41:38 -0500
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>
Message-ID: <LYR842-91757-2000.06.19-07.46.01--lyris.aprssi#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

Hello All, I am still having some problems with getting WinAPRS 2.4.5 to run right. I have left it running in my part of Arkansas just to heard and beacon to see who I can pick up. I went back to find that WinAPRS hadn't seen anyone... but when I checked my KamPlus MHEARD List it showed 2 stations that had been heard that night on the APRS frequency. SO I know that my TNC heard them but WinAPRS didn't. I know my TNC is set up correctly so I figure it must be the program. ANYone have a problem like this? Or a fix???

THanks,  
 Jamie Hutches, KD5G0B  
 Searcy Arkansas

---

### 888. [aprssi] RE: Swim Race Around Manhattan

```

From: "Henk de Groot (EMN)" <Henk.de.Groot@emn.ericsson.se>
Date: Mon, 19 Jun 2000 14:06:35 +0200
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>
Message-ID: <LYR842-91758-2000.06.19-08.07.14--lyris.aprssi#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

```

> Well then there should be a ?DD for the nearest Dunkin Donuts for
> ham/cops!

```

Well, in my mind DD is "Donald Duck" so ?DD should lead you to store with comic strips to keep your children quiet during a field contest...

Kind regards,

Henk.

---

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---

## 889. [aprssig] Re: Trimble GPS TAIP Protocol Translator

From: Gerry Creager N5JXS <gerry@cs.tamu.edu>  
Date: Mon, 19 Jun 2000 08:23:02 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91761-2000.06.19-08.27.22--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Joel Harrington wrote:

>  
> Is anyone aware of a Trimble ASCII Interface Protocol (TAIP) to NMEA-0183  
> GPS sentence string translator? I am aware of the Byonics GST-1 & GST-2  
> translators (<http://www.byonics.com/index.html>) for the Rockwell Binary  
> format, as used in the DeLorme Earthmate and Sony SkyMap GPS receivers, but  
> have found nothing for TAIP to NMEA translator/converter.

Check <ftp://www.trimble.com/pub/mapping/bin/gpstools.exe> and see if that doesn't provide a skeleton of a c program for this. I honestly don't remember if it does, or if it's tsip, and I'm downloading it now, but my virtual NT machine is busy with something else, so it's likely to be a bit before I can discern an answer.

I'm also looking in a google search for you on this...

73, gerry n5jxs

--

Gerry Creager                   gerry@cs.tamu.edu, gerry@page4.cs.tamu.edu  
Network Engineering                   |Research focusing on  
Computer Science Department           |Satellite Geodesy and  
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979.458.4020

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## 890. [aprssig] Truncated packets

From: Bill Diaz <billdiaz@megsinet.net>  
Date: Mon, 19 Jun 2000 08:28:40 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91762-2000.06.19-08.32.27--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Steve Dimse has provided aprs.net:14502 that provides the APRS data with the address of the originating IGATE prepended. Brent Hildebrand showed how this could be used to track down the source of bad originating calls.

AFilter used aprs.net:14502 to capture the following sample of truncated packets :

```
209.48.124.40:N4KSS Header error KF4HJW>WIDE3-1
<UI,APW243,N4EVA-11,WA4BWB-3*:}KB7ZVA>APW247,TCPIP,KF4HJW*:=3240.40N/11425.3
1WIPHG72
209.48.124.40:N4KSS Data error 80/Yuma, AZ. Digipeater - Wormhole -AZYUMYUMA
-247-<530>
209.48.124.40:N4KSS Header error KF4HJX>WIDE3-2
<UI,APW243,N4EVA-11,WA4BWB-3*:}=3706.03N/07630.21WZPHG2130/WinAPRS 2.4.3
-VANWPNWPT N
209.48.124.40:N4KSS Data error EW-243-<530>
209.48.124.40:N4KSS Header error WB4WOR-9>WIDE
<UI,APW240,W4G50,WA4BWB-3*:}=3556.31N/07958.73W8PHG7260/Channel 8 Weather Center
and a
209.48.124.40:N4KSS Data error rea APRS IGATE -NCGUIHIGH POI-240-<530>
209.48.124.40:N4KSS Header error KF4HJW>WIDE3-1 <UI,APW243,N4EVA-11,WA4BWB-3
*:)N3ZLL-2>APW247,TCPIP,KF4HJW*:=3934.13N/07559.18W/ Cec
```

209.48.124.40:N4KSS Data error il County Skywarn OKG-007  
 -MDCECCHARLEST-247-<530>  
 209.48.124.40:N4KSS Header error KE4FCW>WIDE4-2  
 <UI,APM342,WA4BWB-3\*:=3608.70N/07950.70W\_PHG6020/MacAPRS 3.4.2  
 -NCGUIGREENSBO-342-<  
 209.48.124.40:N4KSS Data error 064>  
 209.48.124.40:N4KSS Header error KF4HJW>WIDE3-1  
 <UI,APW243,N4EVA-11,WA4BWB-3\*:=3446.00N/08235.45  
 W\_PHG226  
 209.48.124.40:N4KSS Data error 0/WinAPRS 2.4.3 -SCANDEASLEY -245-<630>  
 209.48.124.40:N4KSS Header error KF4HJW>WIDE3-1  
 <UI,APW243,N4EVA-11,WA4BWB-3\*:=3956.60N/08522.43W-  
 TAWG  
 209.48.124.40:N4KSS Data error / Chairman / k9apr@tawg.org -247-<530>  
 209.48.124.40:N4KSS Header error KA3ZYP>WIDE5-2  
 <UI,APW243,KE4KUR-3,WA4BWB-3\*:=3300.13N/08012.56W-PHG5060/ka3zyp@qsl.net  
 -SCDORSUMME  
 209.48.124.40:N4KSS Data error RVI-243-<520>

It appears that N4KSS may be truncating packets at about 100 bytes. The second packet gated by N4KSS contains the portion of the packet that exceeded 100 bytes.

Bill KC9XG

---

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---

## 891. [aprssig] Mysterious icon metamorphosis...

From: Robert Stessel <stessel@maine.edu>  
 Date: Mon, 19 Jun 2000 13:53:41 +0000  
 To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
 Message-ID: <LYR842-91764-2000.06.19-08.56.44--lyris.aprssig#tapr.org@lists.tapr.org>  
 Rendered body type: text/plain

>From: Jim Duncan <ku0g@kcaprs.org>  
 >To: "TAPR APRS Special Interest Group" <aprssig@LISTS.TAPR.ORG>  
 >Subject: [aprssig] Mysterious icon metamorphosis...

>

>I am having a problem on the system here. It seems that after a couple  
 >of hours of operation (APRS plus Netscape) that the icons on the task  
 >bar and desktop mysteriously change to some other icon!

>

>Is anyone else experiencing similar operation? Is this potentially  
 >WinAPRS-related?

>

It happens to me with Netscape on my home win98, it changes to SimCity 3000  
 when the boy is running that program, and somehow changes back, or to something  
 else on occasion. Haven't debugged it because right now it is only a  
 curiosity, not an annoyance. My guess ( & only a guess, not even an  
 educated guess!)

is that maybe it has something to do with a conflict with two programs using  
 the  
 same file extension associations?

If you find a cure, please post it or let me know directly?

Wonder if others have seen this bug with programs other than netscape?

K1WXY - "Stes" - Robert Stessel, 19 Main St., Milford ME 04461 - 207-827-8733  
 U.Maine - Orono - Oceanography - stessel@maine.edu - 207-581-4393  
 U.Maine ARC Repeater W1YA 145.47(-)

---

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---

## 892. [aprssig] Re: DIGI\_NED 0.1.2

From: Hamish Moffatt <hamish@cloud.net.au>  
 Date: Tue, 20 Jun 2000 00:18:14 +1000  
 To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>



Message-ID: <LYR842-91766-2000.06.19-09.21.51--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

On Mon, Jun 19, 2000 at 10:13:09AM +0200, Henk de Groot (EMN) wrote:  
> also act as a cross-band digipeater. The source is published under  
> the GPL licence.

Thanks for using the GPL license for DIGI\_NED. It's great to see some more open source software for ham radio, especially APRS. I firmly believe that in the long term, only open source protocols and implementations will survive.

Now we have an excellent array of open source APRS tools: DIGI\_NED on DOS, and on Linux we have Xastir (graphical client), aprsd (IGATE) and aprsdigi (digipeater).

Although some of the other APRS software is free, that's free as in beer rather than free as in speech. In the long term, those programs will reach the end of their usefulness. Without open source, we wouldn't be able to update these tools for new protocols and systems.

For example, aprsdigi (for Linux) needs to be modified to work with the current AX.25 libraries on Linux, which wouldn't be possible with proprietary software. I wouldn't have been able to add Linux sockets support to Dale's fine aprsd program either.

Open source goes along way beyond just saving money. (In fact, open source doesn't even imply free of cost.)

Enough ranting from me,

Hamish

--

Hamish Moffatt VK3SB <hamish@debian.org> <hamish@cloud.net.au>

---

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---

### 893. [aprssid] WinAPRS not hearing stations

From: "Jeff Brenton" <jeffb@espi.com>  
Date: Mon, 19 Jun 2000 09:20:38 -0500  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-91767-2000.06.19-09.26.35--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

> I know that my TNC heard them but WinAPRS didn't. I know my TNC is set up  
> correctly so I figure it must be the program.

You can't really be sure the TNC is right yet.... There are several "killer settings" that MUST be correct, or at least part of APRS (all versions) will be "broken".

MCOM OFF  
MCON OFF  
MON ON  
PACLEN 0  
SCREENLN 0  
HEADERLN OFF

If HEADERLN ON is set, the call sign and path information will be sent to the APRS program on a separate line from the data.. which makes both lines invalid. WinAPRS will ignore them, so it will not have anything in its heard list, OR (unfortunately!) the history list or log file. You can only see this problem if you're watching when it happens.

Try this - connect to the TNC with Hyperterm, and turn on its capture-to-file function. Let it run for 24 hours, and see what the TNC is sending to WinAPRS. If you have two serial ports, you could run it in parallel with WinAPRS, by jumpering the RXD lines between the two port.

If the lines coming in do not look pretty much like the following, they're not going to plot:

AA9YZ-5>APRS,WIDE:=4012.34N/07654.32W-Here I am!

HEADERLN ON would make that look like:

AA9YZ-5>APRS,WIDE:  
=4012.34N/07654.32W-Here I am!

Which means that WinAPRS would have trouble deciding who sent the position.  
Each and every line received is considered individually...

Jeff Brenton  
President,  
Engineered Software Products, Inc  
<http://espi.com>  
Questionable web page: <http://dididahdahdidit.com>  
Northern Illinois APRS Network: <http://nian.aprs.net>

My goal in life: To be remembered as someone who always  
stated what should have been obvious to everyone in the  
first place.

---

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---

## 894. [aprssig] Filtering Incoming Data

From: "Sadowski, Allan" <[allan.sadowski@ncshp.org](mailto:allan.sadowski@ncshp.org)>  
Date: Mon, 19 Jun 2000 10:41:36 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-91771-2000.06.19-09.41.05--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Maybe a stupid quest and question on my part... but hasn't stopped me  
before... ;)

Configuration. D700 connected to PC running WinAPRS 2.3.3

Quest. To ONLY see APRS data that has ONLY traveled over RF channel... not  
see  
any data that has traveled over ANY internet channel and then retransmitted  
over RF  
for me to see via the D700...

TNX in advance...  
AL0HA  
AH6LS

---

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---

## 895. [aprssig] THEY'RE OFF AND BIKING!

From: "David Dobbins" <[ddobbins@localaccess.com](mailto:ddobbins@localaccess.com)>  
Date: Mon, 19 Jun 2000 07:51:19 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-91773-2000.06.19-09.57.37--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The Radio Shack Big Ride Across America for the American Lung Association  
has just left the UW campus in Seattle, WA, bound for Washington, DC. They  
will arrive in DC August 5th. The tracker is working and the "caboose"  
support vehicle, a minivan, will be sending routine position updates on HF  
and VHF. You can track the ride at: <http://bigride.findu.com>. You can find  
out more info about the ride at <http://bigride.com>. Any of you who have had  
lung disease in your life know that the American Lung Association is working  
miracles in your behalf. This group of 225 bicyclists, young and old, are  
riding across our great country to raise funds so that research and care for  
those in need continues. Perhaps you would like to make a contribution to  
this cause as well? You can also show your support by visiting with the  
cyclists along the route. The route stops and daily destinations are posted  
on their web page. FYI, Radio Shack provided all the voice and data comms  
equipment, including the HF and VHF tracker radios. We provided the KAM+ so  
that simultaneous operation on HF and VHF would be possible. Shows the brave  
riders your support! 73, Dave/K7GPS

---

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## 896. [aprssig] Re: Looking for Internet site that can display vehicle tracking data.

From: "Brent Hildebrand" <bhildebrand@earthlink.net>  
Date: Mon, 19 Jun 2000 07:54:50 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91774-2000.06.19-09.58.39--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

SeeU can use FindU to capture up to that last 100 data point in the last 24 hours and display it as a track for any station for which FindU has data, and plot it into Street Atlas USA on a Win98 computer. The program is at <ftp://ftp.tapr.org/aprssig/winstuff/aprsplus>, and the file is SEEU.ZIP.

Brent KH2Z

----- Original Message -----

From: Michael Francoeur <n1naf@mint.net>  
To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Sent: Monday, June 19, 2000 4:20 AM  
Subject: [aprssig] Looking for Internet site that can display vehicle tracking data.

> Is there a website on the net that can display the entire track of vehicles  
> as opposed to their last reported location?  
>  
> - Mike (N1NAF)  
>  
>  
> ---  
> You are currently subscribed to aprssig as: bhildebrand@earthlink.net  
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org  
>  
>

---

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---

## 897. [aprssig] Re: Mysterious icon metamorphosis...

From: "James Gutshall" <jeg@cc.usu.edu>  
Date: Mon, 19 Jun 2000 09:27:25 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91777-2000.06.19-10.11.59--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I have seen the same bug.... I am not running netscape...

----- Original Message -----

From: Robert Stessel <stessel@maine.edu>  
To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Sent: Monday, June 19, 2000 7:53 AM  
Subject: [aprssig] Mysterious icon metamorphosis...

> >From: Jim Duncan <ku0g@kcaprs.org>  
> >To: "TAPR APRS Special Interest Group" <aprssig@LISTS.TAPR.ORG>  
> >Subject: [aprssig] Mysterious icon metamorphosis...  
>  
> >  
> >I am having a problem on the system here. It seems that after a couple  
> >of hours of operation (APRS plus Netscape) that the icons on the task  
> >bar and desktop mysteriously change to some other icon!  
> >  
> >Is anyone else experiencing similar operation? Is this potentially  
> >WinAPRS-related?  
> >  
>  
> It happens to me with Netscape on my home win98, it changes to SimCity  
3000  
> when the boy is running that program, and somehow changes back, or to  
something  
> else on occasion. Haven't debugged it because right now it is only a  
> curiosity, not an annoyance. My guess ( & only a guess, not even an  
> educated guess! )  
> is that maybe it has something to do with a conflict with two programs  
using  
> the  
> same file extension associations?  
>

```

> If you find a cure, please post it or let me know directly?
>
> Wonder if others have seen this bug with programs other than netscape?
>
>
>
> K1WXY - "Stes" - Robert Stessel, 19 Main St., Milford ME 04461 -
207-827-8733
> U.Maine - Orono - Oceanography - stessel@maine.edu - 207-581-4393
> U.Maine ARC Repeater W1YA 145.47(-)
>
>
> ---
> You are currently subscribed to aprssig as: jeg@cc.usu.edu
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
>
>

```

```

---
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```

---

## 898. [aprssig] long journey

```

From: "Roger Rockwell" <wb4trz@usa.net>
Date: Mon, 19 Jun 2000 10:15:23
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-91779-2000.06.19-10.18.55--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

IS it over? Things will happen.
Details http://qsl.net/k1pns

```

73's Thanks for all the offers of help. Roger

```

---
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```

---

## 899. [aprssig] Re: DIGI\_NED 0.1.2

```

From: "Henk de Groot (EMN)" <Henk.de.Groot@emn.ericsson.se>
Date: Mon, 19 Jun 2000 17:55:36 +0200
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-91789-2000.06.19-11.04.51--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

```

> Now we have an excellent array of open source APRS tools: DIGI_NED on
> DOS, and on Linux we have Xastir (graphical client), aprsd (IGATE)
> and aprsdigi (digipeater).

```

DIGI\_NED also runs fine on Linux (same source, same features except things like DOS-shell etc. which make no sense for Linux). It only uses the AX.25 kernel interfaces (old and new, I run with 2.0.36 kernel, other users run with 2.2.15). I build an test under Linux and only one day before release I check if it still runs fine in DOS - up to now it always does. I think it would be a real waste to only use this program for DOS.

To use it for Linux do the following:

- Get the source (no need to get the DOS exe stuff).
- If you got the source in a 'DOS' wrapper like dnsrc012.zip then unzip and throw away the .zip file (see README why I need this).
- Unpack the digi\_ned.0.1.2.tar.gz tar-ball
- Edit the Makefile to remove a '#' if you have a 2.2 kernel
- Do 'make depend'
- Do 'make'

It should compile without any problem. This will give you a digi\_ned executable that runs with the very same files as the DOS version. You can use '\' or '/' paths for all files, the DOS binary converts to '\' and the Linux binary to '/' separators, so you not even have to change paths in the files (unless you want to load the stuff from different places).

Also all the input files - the rules file, beacon-file etc - can be either in DOS or UNIX format (<CR><LF> or <LF> line termination), the program reads both. The reason for distributing them in DOS format is because some DOS editors have problem with the UNIX format. I use

'vim' under Linux to edit and that happily edits the DOS files. Also GCC does not have any problem with DOS formatted sources. So because of the restrictions of DOS I have the files in DOS format, Linux has not the slightest problem with this.

DIGI\_NED.TXT documentation explains how you can connect DIGI\_NED to an IGATE or Xastir (all on the same Linux-box, no second computer with brain-dead DOS).

On <ftp://ftp.suse.com/pub/projects/ham/i386/current> you can find an RPM file of the program for Suse if you don't want to compile it yourself. Of course they cannot keep in sync with my releases every 2 weeks so they are a bit behind now. I don't know if other distros have it too, but at least Suse informed me about it - that's how I know they did this.

I hope this explains a bit that it is more than just DOS. Of course if you want to setup a dedicated digi on a hilltop use an obsolete 286 with DOS obviously... You don't want a Pentium Pro bla 1000Mhz with MMX whatever technology there...

You can test your setup with Linux in your Shack and when you are finished drop the configuration in the DOS cheapo PC. Our DIGI boots from floppy and loads itself in a ramdisk. No need for moving parts like harddisks.

Kind regards,

Henk.

--

#####  
The difference between theory and practice in practice is bigger than the difference between theory and practice in theory.

Henk de Groot | Tel: +31 53 4505400 Ext: 5400  
<Henk.de.Groot@emn.ericsson.se> | Ericsson Business Mobile Networks

---

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---

## 900. [aprssig] AFilter 1.18

From: Bill Diaz <[billdiaz@megsinet.net](mailto:billdiaz@megsinet.net)>  
Date: Mon, 19 Jun 2000 11:38:34 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-91801-2000.06.19-11.44.41--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-91801-2000.06.19-11.44.41--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

AFilter 1.18 is now available at <ftp://ftp.billdiaz.dynip.com/outgoing>  
Bandwidth is limited and files are only available when I am online.

You can also try <http://www.cyberhighway.net/~tateb> There may be some delay in making the files available at this site.

Added the ability to enable strict error checking. If enabled any packet that contains any errors including improper formatting, out of range locations, control characters (MicE excepted), improper characters in originating calls, bad SSID's, etc. are rejected. This feature should reduce or eliminate crashes experienced by some client applications.

If AFilter is connected to [aprs.net:14502](http://aprs.net:14502) then the IGATE originating address is captured. This information is then included in the data display, ErrorLog, and several other logging files. The origination field is stripped out, and if the packet passes the filters and error checking, the packet is passed to the client application without the origination information. This feature can be used to determine where malformed, or mangled packets are originated.

Added local time display. AFilter now displays your system time, and your local time.

Bill KC9XG

---

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## 901. [aprssid] Re: DIGI\_NED 0.1.2

From: Jeff King <jeff@aerodata.net>  
Date: Mon, 19 Jun 2000 13:26:21 -0400  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssid@lists.tapr.org>  
Message-ID: <LYR842-91802-2000.06.19-12.27.41--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Fine comments Hamish

Hamish Moffatt wrote:

> Although some of the other APRS software is free, that's free  
> as in beer rather than free as in speech. In the long term, those  
> programs will reach the end of their usefulness. Without open  
> source, we wouldn't be able to update these tools for new  
> protocols and systems.

I can't see any reason why if a program is exclusively for amateur radio, why it wouldn't be released open source... I think you could ask \*any\* of the "for pay" software authors, if they factored in their time and customer support issues, I'd bet none of them are making more than \$0.25USD/hr for their efforts. The only real "currency" in this endeavor is public recognition, and comes just as easy to those that practice the open source model. Just ask Phil Karn about that, who started the NOS project.

> Open source goes along way beyond just saving money. (In fact,  
> open source doesn't even imply free of cost.)

I'm glad you mentioned that.... I was about to go on a rant about the evil of GPL software, but I think you recognize that. I am an open source advocate but not a GPL advocate. Open source can be open source but still protect someone's intellectual property (in the sense if you make money off it, the author deserves a piece of that).

> Enough ranting from me,

Rant on, you're always on my list of "must read" posters on APRSSIG.

-Jeff

---

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---

## 902. [aprssid] Re: AFilter 1.18

From: Tate - KC7ZRU <kc7zru@cyberhighway.net>  
Date: Mon, 19 Jun 2000 11:26:54 -0600  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-91804-2000.06.19-12.48.15--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

AFilter 1.18 is now available on <http://www.cyberhighway.net/~tateb> as well

Thanks Bill!

73

Bill Diaz wrote:

>  
> AFilter 1.18 is now available at <ftp://ftp.billdiaz.dynip.com/outgoing>  
> Bandwidth is limited and files are only available when I am online.  
>  
> You can also try <http://www.cyberhighway.net/~tateb> There may be some delay in  
> making the files available at this site.  
>

--

|             |  |                 |
|-------------|--|-----------------|
| KC7ZRU      |  | In Laramie Area |
| Laramie, WY |  | UARC Repeater   |
| DN71eh      |  | 146.610         |

"The Dungeon" online at <http://www.cyberhighway.net/~tateb>  
LINUX Powered

---

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---

### 903. [aprssig] Re: DIGI\_NED 0.1.2

From: "Jeff Brenton" <jeffb@espi.com>  
Date: Mon, 19 Jun 2000 12:48:29 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91806-2000.06.19-12.53.04--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> I can't see any reason why if a program is exclusively for amateur radio,  
> why it wouldn't be released open source...

Just to remind people that "Open Source" does not equate to free, either...  
And some of the authors have substantial investment in software tools that  
are needed to support various endeavors. The cross-platform tools used for  
Win/X/MacAPRS (for example) aren't free, or even cheap, and the free tools  
available on each individual platform do not give you the same features  
across the board. Registrations help keep those tools up-to-date.

[of course, then you can get into the twisted logic of whether or not it is  
legal to use a Gnu Public License tool or compiler to target a  
closed-source machine, and the various variations floating around about  
THAT flame war...]

Jeff Brenton  
President,  
Engineered Software Products, Inc  
<http://espi.com>  
Questionable web page: <http://dididahdahdidit.com>  
Northern Illinois APRS Network: <http://nian.aprs.net>

My goal in life: To be remembered as someone who always  
stated what should have been obvious to everyone in the  
first place.

---

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---

### 904. [aprssig] Re: DIGI\_NED 0.1.2

From: Jeff King <jeff@aerodata.net>  
Date: Mon, 19 Jun 2000 14:21:34 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91809-2000.06.19-13.22.56--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Jeff Brenton wrote:

> > I can't see any reason why if a program is exclusively for amateur radio,  
> > why it wouldn't be released open source...  
>  
> Just to remind people that "Open Source" does not equate to free, either...

Which is what both Hamish and myself already said (I agreed with Hamish).....

> And some of the authors have substantial investment in software tools that  
> are needed to support various endeavors. The cross-platform tools used for  
> Win/X/MacAPRS (for example) aren't free, or even cheap, and the free tools  
> available on each individual platform do not give you the same features  
> across the board. Registrations help keep those tools up-to-date.

Life is all about choices. Phil Karn started NOS with Borland Turbo C, which  
was not a free tool at the time. The point that you are missing in Hamish's message  
is the legacy, that is, being able to carry on development. No-one ever said the  
authors shouldn't be compensated for their work... I just suggested that if the  
author's figured out the funds they received versus the time they spent, I highly  
doubt if they are making much more then 0.25USD/hr for their efforts. Point  
being, its a labor of love.

I'm more likely to pay a shareware fee for a open source project then a proprietary  
project. I know with the proprietary project, if the author tires of making 0.25USD/hr  
on his project, at least I have the chance of making it what I want it to be.

Getting the source would be a good carrot for paying the shareware fee.

-Jeff

---

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---

## 905. [aprssig] D-700A

From: "John M. LeSage" <[jlesage@wishtv.com](mailto:jlesage@wishtv.com)>  
Date: Mon, 19 Jun 2000 13:55:42 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-91813-2000.06.19-13.55.42--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Is there anyway to have a channel set as a priority while in the memory scan?

thanks  
kb9tsg

---

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---

## 906. [aprssig] MapBlast strangeness?

From: "Thomas M. Schaefer" <[toms@inconnect.com](mailto:toms@inconnect.com)>  
Date: Mon, 19 Jun 2000 13:03:05 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-91815-2000.06.19-14.05.59--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Try this...

Go to URL: [map.findu.com/](http://map.findu.com/)<your call>.

When you get the three maps, click on the first one. This sends you to mapblast's site, with a map with the intersection of Young and Bliss street. If you click on zoom out and zoom back, it is the correct map. Is anyone else seeing this?

Thanks,

Tom NY4I

---

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---

## 907. [aprssig] BIG RIDE PICS AND UPDATES

From: "David Dobbins" <[ddobbins@localaccess.com](mailto:ddobbins@localaccess.com)>  
Date: Mon, 19 Jun 2000 12:07:33 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-91816-2000.06.19-14.12.38--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I've updated the <http://nwaprs.org/bigride.htm> web page to include some info and pictures on the APRS installation aboard the Big Ride minivan. Also included in the daily schedule thru July 5th, and links to related sites.  
Dave/K7GPS

David S. Dobbins  
POB 217  
Pe Ell, WA 98572  
(360) 291-3707

Amateur Radio: K7GPS  
[www.nwaprs.org](http://www.nwaprs.org)  
[map.findu.com/k7gps-9](http://map.findu.com/k7gps-9)

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---

## 908. [aprssig] FindU search utility - Where was <callsign> on <date>?



From: "Thomas M. Schaefer" <toms@inconnect.com>  
Date: Mon, 19 Jun 2000 13:48:16 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91822-2000.06.19-14.51.01--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I made a search utility for FindU. This script allows locating a position at any given time. The URL is <http://www.xmission.com/~uarc/search.htm>

Enter the callsign you want, and the start date and stop date and you will get a listing of all the position reports during that time period. This is the first pass at this, so you have to enter the date in the correct form: YYYYMMDDHHMMSS and remember the times are in UTC.

When you get the results back, it lists the position, the time, the speed, and the course. If you click on the call, you get the standard mapblast map. If you click on the time, you get a topo map. If you only enter your base callsign, you will get positions for all SSID's of the requested call. SO, if you want a specific SSID, make sure you enter it all.

Thanks to Steve, K4HG, for putting up the FindU so we can make use of its database for queries like these. So, if you do not want people to be able to "findu", turn off those trackers...

Let me know how it works for you.

73,

Tom Schaefer, NY4I

PS I would like to add the ability to download a position file to put into other programs so it can create a track. It seems reasonable to put these in a POS file and import it into APRSDOS or APRSWin. That will be next if it is feasible.

---

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## 909. [aprssig] Re: FindU search utility - Where was <callsign> on <date>?

From: "Brent Hildebrand" <bhildebrand@earthlink.net>  
Date: Mon, 19 Jun 2000 13:10:09 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91825-2000.06.19-15.13.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

And if follow up, I have uploaded a revision to SeeU that works with WinNT as well as Win95. SeeU is a stand alone facility that will take the Lat/Long data from FindU and plots a track into Street Atlas USA, or will plot the most recent Position report into Street Atlas USA. The file can be downloaded at the following URL:  
<ftp://ftp.tapr.org/aprssig/winstuff/aprsplus/SeeU.zip>.

The file size is 1.4mb.

Brent, KH2Z

----- Original Message -----

From: Thomas M. Schaefer <toms@inconnect.com>  
To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Sent: Monday, June 19, 2000 12:48 PM  
Subject: [aprssig] FindU search utility - Where was <callsign> on <date>?

> I made a search utility for FindU. This script allows locating a position at  
> any given time. The URL is <http://www.xmission.com/~uarc/search.htm>  
>  
> Enter the callsign you want, and the start date and stop date and you will  
> get a listing of all the position reports during that time period. This is  
> the first pass at this, so you have to enter the date in the correct form:  
> YYYYMMDDHHMMSS and remember the times are in UTC.  
>  
> When you get the results back, it lists the position, the time, the speed,  
> and the course. If you click on the call, you get the standard mapblast map.  
> If you click on the time, you get a topo map. If you only enter your base  
> callsign, you will get positions for all SSID's of the requested call. SO,  
> if you want a specific SSID, make sure you enter it all.

>  
> Thanks to Steve, K4HG, for putting up the FindU so we can make use of its  
> database for queries like these. So, if you do not want people to be able to  
> "findu", turn off those trackers...  
>  
> Let me know how it works for you.  
>  
> 73,  
>  
> Tom Schaefer, NY4I  
>  
> PS I would like to add the ability to download a position file to put into  
> other programs so it can create a track. It seems reasonable to put these in  
> a POS file and import it into APRSDOS or APRSWin. That will be next if it is  
> feasible.  
>  
>  
>  
>  
> ---  
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>  
>

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---

## 910. [aprssig] Re: MapBlast strangeness?

From: "David J. Hoffman" <ke4fgw@vol.com>  
Date: Mon, 19 Jun 2000 16:26:58 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91826-2000.06.19-15.30.59--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I get the same thing with my Call Sign. I went up one zoom level and then back and everything is fine. It just the first map from mapblast that is wrong.

Thomas M. Schaefer wrote:

> Try this...  
>  
> Go to URL: map.findu.com/<your call>.  
>  
> When you get the three maps, click on the first one. This sends you to  
> mapblast's site, with a map with the intersection of Young and Bliss street.  
> If you click on zoom out and zoom back, it is the correct map. Is anyone  
> else seeing this?  
>  
> Thanks,  
>  
> Tom NY4I  
>  
> ---  
> You are currently subscribed to aprssig as: ke4fgw@vol.com  
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

--  
David J. Hoffman - KE4FGW

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---

## 911. [aprssig] Re: MapBlast strangeness?

From: "Thomas M. Schaefer" <toms@inconnect.com>  
Date: Mon, 19 Jun 2000 14:32:25 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91827-2000.06.19-15.35.08--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Thanks for the confirmation. After zooming out and back in, I took that URL and made a new one from it and it seems OK. I think they must have changed an option.

Thanks,

Tom NY4I

----- Original Message -----

From: "David J. Hoffman" <ke4fgw@vol.com>

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Sent: Monday, June 19, 2000 2:26 PM

Subject: [aprssig] Re: MapBlast strangeness?

> I get the same thing with my Call Sign. I went up one zoom level and then back

> and everything is fine. It just the first map from mapblast that is wrong.

>

> Thomas M. Schaefer wrote:

>

> > Try this...

> >

> > Go to URL: map.findu.com/<your call>.

> >

> > When you get the three maps, click on the first one. This sends you to mapblast's site, with a map with the intersection of Young and Bliss street.

> > If you click on zoom out and zoom back, it is the correct map. Is anyone else seeing this?

> >

> > Thanks,

> >

> > Tom NY4I

> >

> > ---

> > You are currently subscribed to aprssig as: ke4fgw@vol.com

> > To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

>

> --

> David J. Hoffman - KE4FGW

>

>

>

> ---

> You are currently subscribed to aprssig as: toms@inconnect.com

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>

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## 912. [aprssig] Re: FindU search utility - Where was <callsign> on <date>?

From: Jeff King <jeff@aerodata.net>

Date: Mon, 19 Jun 2000 16:34:57 -0400

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>

Message-ID: <LYR842-91828-2000.06.19-15.36.25--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

"Thomas M. Schaefer" wrote:

>

> Thanks to Steve, K4HG, for putting up the FindU so we can make use of its

> database for queries like these. So, if you do not want people to be able to

> "findu", turn off those trackers...

Actually, all you need do with FINDU to disable the logging function is put the "x-noarchive" sting in.... I believe this was streamline recently. So no need to QRT out of APRS if you don't want FINDU to log you.

-Jeff

---

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## 913. [aprssig] MacAPRS, OS9 and open transport

From: Ernst Niggli <niggli@pyl.unibe.ch>  
Date: Mon, 19 Jun 2000 15:46:17 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91832-2000.06.19-15.50.45--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I just got a new Powerbook G3 and tried MacAPRS 3.4.5. (open transport).  
So far, no luck with the TCP/IP connection to the Internet from MacAPRS.

Does anybody have a solution??

BTW, the Keyspan USB Double-Serial adapter works just fine with the  
TH-D7 and APRS.

73

--  
Ernst Niggli, HB9PVI/W9  
Department of Physiology  
Loyola University  
2160 South First Avenue  
Maywood IL 60153  
USA

E-mail: niggli@pyl.unibe.ch

WWW:  
<http://beam.to/HB9PVI>

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---

#### 914. [aprssig] Re: MacAPRS, OS9 and open transport

From: Steve Dimse <k4hg@tapr.org>  
Date: Mon, 19 Jun 2000 16:53:07 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91836-2000.06.19-15.56.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 6/19/00 4:46 PM Ernst Niggli (niggli@pyl.unibe.ch) wrote:

>I just got a new Powerbook G3 and tried MacAPRS 3.4.5. (open transport).  
>So far, no luck with the TCP/IP connection to the Internet from MacAPRS.  
>  
>Does anybody have a solution??  
>

Nope. MacAPRS is incompatible with OS9. Mark is working on the problem...

Steve K4HG

---  
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---

#### 915. [aprssig] Re: MacAPRS, OS9 and open transport

From: "Dennis Hudson, N2LBT" <n2lbt@n2lbt.com>  
Date: Mon, 19 Jun 2000 16:59:52 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91837-2000.06.19-16.03.25--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I assume you are using the Ports, and select one of the built in .prt  
files(ie: aprsNet.prt). If you are, click open, wait, then close, then open  
again. Should work. I have run it on everything from a G4/500 to a Duo2300  
with OS 9.04. If there is a local IGate you wish to connect to instead, use  
Simple Text or BEdit on one of the files and change the information as  
needed.

Dennis, N2LBT

> From: Ernst Niggli <niggli@pyl.unibe.ch>  
> Organization: University of Bern, Switzerland  
> Reply-To: niggli@pyl.unibe.ch  
> Date: Mon, 19 Jun 2000 15:46:17 -0500  
> To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
> Subject: [aprssig] MacAPRS, OS9 and open transport

>  
> I just got a new Powerbook G3 and tried MacAPRS 3.4.5. (open transport).  
> So far, no luck with the TCP/IP connection to the Internet from MacAPRS.  
>  
> Does anybody have a solution??  
>  
> BTW, the Keyspan USB Double-Serial adapter works just fine with the  
> TH-D7 and APRS.  
>  
> 73  
>  
>  
> --  
> Ernst Niggli, HB9PVI/W9  
> Department of Physiology  
> Loyola University  
> 2160 South First Avenue  
> Maywood IL 60153  
> USA  
>  
> E-mail: niggli@pyl.unibe.ch  
>  
> WWW:  
> http://beam.to/HB9PVI  
>  
>  
> ---  
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> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org  
>

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---

## 916. [aprssig] USB serial and WAPRS

From: David VanHorn <dvanhorn@cedar.net>  
Date: Mon, 19 Jun 2000 16:00:41 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91838-2000.06.19-16.06.20--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I hate talking to myself, but I'd hate for someone else to have to go through what I did.

I found the problem with my USB port.  
I had to make a short three-wire cable connecting ONLY 2,3,7  
Apparently, even though the handshaking is set to none, there is still some sort of handshaking going on.  
Silly me, when I set all the handshake settings to off, I expected it to be OFF for some stupid reason.

This is with an Entrega 25 pin USB/serial adaptor.

---  
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## 917. [aprssig] Re: FindU search utility - More

From: "Thomas M. Schaefer" <toms@inconnect.com>  
Date: Mon, 19 Jun 2000 15:48:59 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91849-2000.06.19-16.51.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Well, it is feasible...The bottom part of the search.htm page has a form that you can use to generate an HST file. This seems to work different depending upon Netscape or MSIE, so beware. What happens is that the browser will come up and ask you if you want to save a file called <callsign>.hst. Just save it somewhere and then open it with WinAPRS or DOSAprs. In WinAPRS, after you see your station, hit 'R' to replay the track. I forget the option in DOSAPRS.

If it just displays on the browser, then copy it and paste it into a file, then open it. I will try and find out what the difference in the browsers is. I suspect it has to do with the default behavior of certain file types

(MIME).

Good Luck,

Tom NY4I

----- Original Message -----

From: "Thomas M. Schaefer" <toms@inconnect.com>

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Sent: Monday, June 19, 2000 1:48 PM

Subject: [aprssig] FindU search utility - Where was <callsign> on <date>?

> I made a search utility for FindU. This script allows locating a position  
> at  
> any given time. The URL is <http://www.xmission.com/~uarc/search.htm>  
>  
> Enter the callsign you want, and the start date and stop date and you will  
> get a listing of all the position reports during that time period. This is  
> the first pass at this, so you have to enter the date in the correct form:  
> YYYYMMDDHHMMSS and remember the times are in UTC.  
>  
> When you get the results back, it lists the position, the time, the speed,  
> and the course. If you click on the call, you get the standard mapblast  
map.  
> If you click on the time, you get a topo map. If you only enter your base  
> callsign, you will get positions for all SSID's of the requested call. SO,  
> if you want a specific SSID, make sure you enter it all.  
>  
> Thanks to Steve, K4HG, for putting up the FindU so we can make use of its  
> database for queries like these. So, if you do not want people to be able  
to  
> "findu", turn off those trackers...  
>  
> Let me know how it works for you.  
>  
> 73,  
>  
> Tom Schaefer, NY4I  
>  
> PS I would like to add the ability to download a position file to put into  
> other programs so it can create a track. It seems reasonable to put these  
in  
> a POS file and import it into APRSDOS or APRSWin. That will be next if it  
is  
> feasible.  
>  
>  
>  
>  
> ---  
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---

## 918. [aprssig] Dayton IGate down temporarily

From: John Ackermann <jra@febo.com>

Date: Mon, 19 Jun 2000 18:18:32 -0300

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Message-ID: <LYR842-91851-2000.06.19-17.22.06--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

We took a lightning hit Friday evening that knocked out the link that makes the W8APR Igate in Dayton, Ohio work. The digi is still functioning. With some luck, we'll be able to get the replacement components in the next week or so, so I'm hopeful things will be up and running again soon.

Sorry for the inconvenience.

73,

John N8UR

jra@febo.com

--

John Ackermann N8UR  
Dayton, Ohio, USA  
jra@febo.com -- http://www.febo.com

-----BEGIN PGP PUBLIC KEY BLOCK-----  
Version: 2.6.3a

mQBtAzgI9hgAAEDAMiMQDZTVVuVIS0AscJ0Wy63oK4+Q5xvtxbX/ZoG1qC0uYDI  
Fph4/RqL9vVEitWBy6ISk+zbkATzPgy84nrI7+GBtld4F9DoHwARQXjCI8cFZjY  
TSe16ffq0/balukLnQAFebQlSm9obiBSLiBBY2tlcm1hbm4gTjhVUiA8anJhQGZl  
Ym8uY29tPokAdQMFEgI9hjQ0/balukLnQEBtYIC/AxJ2RqT0/9TqY8JGEkPx2sw  
+W5Z6Tu4UI654t9diGdCcIEPjOG1qUvwH2Xop0Yj9QGoM4NnHIw6qUSN5VH7hHKA  
bGnpuTxinuW/gKaI3bt2MC8QZzQ0gy2de269071E2A==  
=UHWL  
-----END PGP PUBLIC KEY BLOCK-----

---

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

---

## 919. [aprssig] Re: Dayton IGate down temporarily

From: David VanHorn <dvanhorn@cedar.net>  
Date: Mon, 19 Jun 2000 17:26:24 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91855-2000.06.19-17.32.04--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 06:18 PM 6/19/00 -0300, John Ackermann wrote:  
>We took a lightning hit Friday evening that knocked out the link that  
>makes the W8APR Igate in Dayton, Ohio work. The digi is still  
>functioning. With some luck, we'll be able to get the replacement  
>components in the next week or so, so I'm hopeful things will be up and  
>running again soon.

The KC6ETE-3 digi is also down, deaf.  
I've been working on the igate config here, so I didn't notice when it went  
down.  
Going up tomorrow night to check on it.

ETE-5 is functioning temporarily as a wide.

---

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## 920. [aprssig] UHTTP

From: Ray Vaughan <ray@rayvaughan.com>  
Date: Mon, 19 Jun 2000 18:44:53 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91857-2000.06.19-17.48.32--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

This is for the APRS think-tank... something maybe way forward thinking... I found this on the net:

>"Appendix C: The Unidirectional Hypertext Transfer Protocol (UHTTP)  
>  
>Overview  
>  
>The Unidirectional Hypertext Transfer Protocol, or UHTTP, is a simple, robust, one-way data transfer  
protocol that is designed to efficiently deliver resource data in a one-way broadcast-only environment.  
This transfer protocol is appropriate for one-way IP multicast over television vertical blanking  
interval (IP/VBI) or other unidirectional transport systems."

This is the spec that makes WebTV popup an 'interactive material available' icon when a TV program is  
going on. A link to more information about the program or commercial. Or in our case, a link to more  
information about the APRS station we just clicked on.

If you think about it, VBI isn't too different from Packet... one way, low bandwidth. It serves as the  
gateway from a one-way network to bigger and better things on a two-way network. Our network could  
become a way to distribute links to web content. Meeting at a specific time and coordinates? Send a  
link to the agenda. Want to see the history of a specific weather stations? Send the URL where the  
history graphs are located. Click on the hurricane icon to see the latest forecast and sat picture.  
Click on a satellite to get the latest Keps. While the talk lately has been the Kenwoods, the home and  
wireless Internet market is growing too. Think of a Palm with a CDPD connection and APRS. There's so

much stuff that could be enhanced with links to the web.

Maybe this spec is overkill, or maybe it's something we can easily adapt to our network. The cool thing is that some big players are writing to it.

If this concept causes the creative juices to flow, go here for the whole spec:

[http://www.atvef.com/library/spec1\\_1a.html](http://www.atvef.com/library/spec1_1a.html)

Ray J. Vaughan, MS, CBTE, CERT  
KD4BBM PG-7-15266  
ray@rayvaughan.com  
ray@2-way.com  
<http://www.rayvaughan.com/>

---

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## 921. [aprssig] TH-D7E (not A) upgrade to G software

From: Ernst Niggli <niggli@pyl.unibe.ch>  
Date: Mon, 19 Jun 2000 18:08:14 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91859-2000.06.19-18.12.42--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Today I called Kenwood Service Center East and later customer service to enquire about the possibility to upgrade the European version of the TH-D7 while I am living in the US.

Unfortunately, nobody appeared to know the specifics of the E model. I had the impression that the difference to an A model is only within the diode settings for the frequency ranges, thus an update should be possible.

Does anybody on the list know a knowledgeable person I might be able to talk to or send E-mail? Maybe one of the engineers actually performing the upgrade?

Thanks for any suggestions.

Ernst HB9PVI/W9

Department of Physiology  
Loyola University  
2160 South First Avenue  
Maywood IL 60153  
USA

E-mail: niggli@pyl.unibe.ch

WWW:  
<http://beam.to/HB9PVI>

---

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---

## 922. [aprssig] RE: Monitoring on Port 14502

From: "Chris Schwab" <1schwabi@tampabay.rr.com>  
Date: Mon, 19 Jun 2000 19:46:26 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91861-2000.06.19-18.50.09--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

All,

Looking at this, KA2TOC is local to me.

Is this an issue with his TNC's PACLEN setting? If so, what is the recommended PACLEN to stop cutting it off at 80 characters? I'll get in touch with the local APRS users and try to get them to change the PACLEN to whatever the sig as a whole recommends.

73,  
Chris N4BSA



-----Original Message-----

From: bounce-aprssi-2015@lists.tapr.org  
[mailto:bounce-aprssi-2015@lists.tapr.org] On Behalf Of Brent Hildebrand  
Sent: Sunday, June 18, 2000 11:09 PM  
To: TAPR APRS Special Interest Group  
Subject: [aprssi] Monitoring on Port 14502

----- Original Message -----

From: Steve Dimse <k4hg@tapr.org>

...

Subject: [aprssi] Re: findu.com - drop impossible callsigns

...

> On 6/13/00 5:14 PM Ray Vaughan (ray@rayvaughan.com) wrote:

> >kd4bbm

> >kd4bbm-6

> >kd4bbm-12

> >kd4bbm-14

> >

> >are the only valid ones. The rest are crap.

...

> in the Miami area. If someone wants to track this down, a good starting

> point is the new port 14502, which tells you the origin of every packet.

> I used to spend hours tracking down things like this, sure glad this

> isn't my problem!

> Steve K4HG>

Well, here is some data monitored off Port 14502. Method of study, each "packet" received was examined for a callsign in the header. If this callsign contained any characters that were not capital letters, numbers or the mid-minus sign, "-", it was flagged along with the packet that immediately preceded the packet which is shown with an asterisk before it. Station CS1SEL produced more packets than is shown. Only a small representation of this stations are presented. Not all shown packets represent problems. Example below, IGate KB8SSH gated the packet from W8MAP-4, there is no problem with this packet, but the following packet gated by IGate station KE4KUR-2 shows the TNC commands from command mode. The study took place over approximately 15 minutes, data being analyzed by a simple APL workspace function. Repeating, only the FROM callsign was looked at.

Findings:

KE4KUR-2 sends data from TNC command mode. It appears the KUR-2 is using WinAPRS v227.

The sending of TNC commands is apparently common.

In addition to KE4KUR-2 sending TNC commands, there is also KJ7AZ, KA2TOC, K5HAB-1 and WU2Z

IGate station KD5HAD shows a mixture of ?EH and cmd:

KA2TOC line wraps each packet at 80 characters, causing fractured packets.

conclusions: most of the packets such as those showing TNC commands would be ignored by APRS client program. Line wrapping at 80 characters will truncate potentially meaningful data, and this should be corrected.

\*209.18.20.63:KB8SSH <----> W8MAP-4>ID,RELAY\*,WIDE/V:W8MAP-4/R RELAY/D WIDE/N

\*24.6.61.189:KE4KUR-2 <----> unproto APW227 via WIDE,WIDE,TRACE

\*24.6.61.189:KE4KUR-2 <----> unproto APW227 via WIDE,WIDE,TRACE

24.6.61.189:KE4KUR-2 <----> conv

\*24.6.61.189:KE4KUR-2 <----> conv

24.6.61.189:KE4KUR-2 <----> =3249.33N/07952.31WIPHG2130/WinAPRS 2.4.3 IGate in the Lowcountry -SCCHAMT. PLEA-227-<520>

\*24.6.61.189:KE4KUR-2 <----> =3249.33N/07952.31WIPHG2130/WinAPRS 2.4.3 IGate in the Lowcountry -SCCHAMT. PLEA-227-<520>

24.6.61.189:KE4KUR-2 <----> unproto APW227 via WA4USN-5, WIDE3-3

\*24.26.70.138:KA2TOC <---->

KF4KUL>APRX46/V:@160745z2749.64N/08239.01W\_163/004g005t080r000p000...h11b10144d

24.26.70.138:KA2TOC <----> U2k

\*24.2.94.117:NS8E <---->

KC8LCP-13>BEACON,KA9KIM,AA8JR,K1DE-5\*,WIDE/V:!4246.52N/08612.73W\_WX4 Loc Holland State Park

24.6.61.189:KE4KUR-2 <----> unproto APW227 via WA4USN-5,KE4KUR-3,WIDE,WIDE

\*24.6.61.189:KE4KUR-2 <----> unproto APW227 via WA4USN-5,KE4KUR-3,WIDE,WIDE

24.6.61.189:KE4KUR-2 <----> conv

\*24.6.61.189:KE4KUR-2 <----> conv

24.6.61.189:KE4KUR-2 <----> =3249.33N/07952.31WIPHG2130/WinAPRS 2.4.3 IGate in the Lowcountry -SCCHAMT. PLEA-227-<520>

```

*24.6.61.189:KE4KUR-2 <----> =3249.33N/07952.31WIPHG2130/WinAPRS 2.4.3 IGATE
in the Lowcountry -SCCHAMT. PLEA-227-<520>
24.6.61.189:KE4KUR-2 <----> unproto APW227 via WA4USN-5, WIDE3-3
*205.148.236.197:W1GRE <---->
KD4HTW-9>APRS,W4NHV-9*,WIDE3-3/2:!3411.46NN07950.44W#PHG6480 WIDEN-N
FLORENCE,SC !
63.27.216.129:KD5HAD <----> ?EH
*212.41.36.194:MB7UIV <----> M1DTA>APRS::M5AEJ :morning simon have anice
day{7
63.27.216.129:KD5HAD <---->
cmd:KD5IGV-14>APRS,WIDE3-2:$GPRMC,063820,A,3150.5271,N,10231.0520,W,000.0,07
9.1,160600,008.3,E*6E
*24.26.70.138:KA2TOC <----> KF4TLJ-9>APRS/V:!2801.57NN08208.77W/ Steve's
mobile relay for emergancy/special
24.26.70.138:KA2TOC <----> use
*193.137.221.244:CS1SEL <----> CT1DBH-1>ID:[IM58IS]
193.137.221.244:CS1SEL <----> JNOS (TCP/IP) - FTP Server - Name Server - WWW
Server
*193.137.221.244:CS1SEL <----> JNOS (TCP/IP) - FTP Server - Name Server - WWW
Server
193.137.221.244:CS1SEL <----> CT1DBH.AMPR.ORG - IP: 44.158.27.18
*193.137.221.244:CS1SEL <----> CT1DBH.AMPR.ORG - IP: 44.158.27.18
193.137.221.244:CS1SEL <----> Massama - PORTUGAL
*193.137.221.244:CS1SEL <----> Massama - PORTUGAL
193.137.221.244:CS1SEL <----> AX.25 pBBS = CT1DBH-1 / Node = CT1DBH-8
*12.23.104.112:KJ7AZ <---->
KJ7AZ>APW247,TCPIP*:=4147.25N/10714.56WIPHG2150/WinAPRS
2.4.7 -WYCARRAWLINS -247-<530>
12.23.104.112:KJ7AZ <----> =4147.25N/10714.56WIPHG2150/WinAPRS
2.4.7 -WYCARRAWLINS -247-<530>
*24.26.70.138:KA2TOC <----> KS4NS-3>APRS/V:!2636.87NN08152.40W#PHG7460/GULF
COAST AREA REPEATER CLUB APRS DI
24.26.70.138:KA2TOC <----> GI R/W/T
*24.26.70.138:KA2TOC <---->
KF4KUL>APRX46/V:@160748z2749.64N/08239.01W_156/004g005t080r000p000...h11b10
144d
24.26.70.138:KA2TOC <----> U2k
*24.26.70.138:KA2TOC <---->
KF4KUL>APRX46/V:@160749z2749.64N/08239.01W_132/004g005t080r000p000...h11b10
143d
24.26.70.138:KA2TOC <----> U2k
*24.26.70.138:KA2TOC <----> KF4TLJ>APS199/V:=2801.55N/08208.75W-PHG7050 Steve
in Plant City, FL semrrt@aol
24.26.70.138:KA2TOC <----> .com
*24.26.70.138:KA2TOC <---->
WB2WPA-4>APW244/V:=2607.65N/08145.96WPHG7460/Collier EOC - Station
UNMANNED! -F
24.26.70.138:KA2TOC <----> LCOLNAPLES -244-<530>
*24.26.70.138:KA2TOC <---->
KA2TOC-9>GPSPP/V:$GPRMC,064213,A,2807.404,N,08222.262,W,000.0,360.0,160600,0
04.
224.26.70.138:KA2TOC <----> ,W*77
*24.26.70.138:KA2TOC <---->
KE4UVQ>APW247/V:=2944.45N/08214.21W-PHG6270/Alachua County
SKYWARN -FLALAGAINESV
24.26.70.138:KA2TOC <----> I-247-<530>
*193.137.221.244:CS1SEL <----> CT1NA>ID:
193.137.221.244:CS1SEL <----> JNOS (TCP/IP) ----- SYSTEM SERVER
*193.137.221.244:CS1SEL <----> JNOS (TCP/IP) ----- SYSTEM SERVER
193.137.221.244:CS1SEL <----> =====
*193.137.221.244:CS1SEL <----> =====
193.137.221.244:CS1SEL <----> CT1NA.AMPR.ORG. ----- IP-44.158.27.48
*24.26.70.138:KA2TOC <---->
KF4KUL>APRX46/V:@160751z2749.64N/08239.01W_156/002g005t080r000p000...h11b10
143d
24.26.70.138:KA2TOC <----> U2k
*24.26.70.138:KA2TOC <----> KR4YL-10>APRS/V:!2756.00NN08243.19W#PHG5460
Pinellas W-R-FL Clearwater, FL kr4yl
24.26.70.138:KA2TOC <----> @arrl.net
*24.28.47.109:NA4AR <---->
KR4YL-10>APRS,WIDE,WIDE/1:!2756.00NN08243.19W#PHG5460 Pinellas W-R-FL
Clearwater, FL kr4yl@arrl.net
193.137.221.244:CS1SEL <----> JNOS (TCP/IP) - DOMAIN NAME SYSTEM SERVER
*193.137.221.244:CS1SEL <----> JNOS (TCP/IP) - DOMAIN NAME SYSTEM SERVER
193.137.221.244:CS1SEL <----> =====
*193.137.221.244:CS1SEL <----> =====
193.137.221.244:CS1SEL <----> CT1YOL.AMPR.ORG. ----- IP-44.158.27.25
*24.26.70.138:KA2TOC <----> NA4V-3>APRDA4/V:;F029
_160643z5454.05S\12153.66WS197/999/145.85 +2/435.91 -7

```

24.26.70.138:KA2TOC <----> /R=09868/mode-J  
 \*165.230.133.74:WUZZ <---->  
 W3PHL-3>APRS,K3ATI-11\*,WIDE,TRACE:!4005.04NT07529.68W#PHG5540/PARA-Valley  
 Forge-WIDE Digipeater  
 208.222.150.140:W0IBM <----> -7/R=09868/mode-J  
 \*24.26.70.138:KA2TOC <---->  
 KF4KUL>APRX46/V:@160752z2749.64N/08239.01W\_181/004g006t080r000p000...h10b10  
 143d  
 24.26.70.138:KA2TOC <----> U2k  
 \*193.137.221.244:CS1SEL <----> CT1DBH-1>ID:[IM58IS]  
 193.137.221.244:CS1SEL <----> JN0S (TCP/IP) - FTP Server - Name Server - WWW  
 Server  
 \*193.137.221.244:CS1SEL <----> JN0S (TCP/IP) - FTP Server - Name Server - WWW  
 Server  
 193.137.221.244:CS1SEL <----> CT1DBH.AMPR.ORG - IP: 44.158.27.18  
 \*193.137.221.244:CS1SEL <----> CT1DBH.AMPR.ORG - IP: 44.158.27.18  
 193.137.221.244:CS1SEL <----> Massama - PORTUGAL  
 \*193.137.221.244:CS1SEL <----> Massama - PORTUGAL  
 193.137.221.244:CS1SEL <----> AX.25 pBBS = CT1DBH-1 / Node = CT1DBH-8  
 \*24.26.70.138:KA2TOC <----> KR4YL>APW245/V:=2752.85N/08246.00W-PHG1141/Paul  
 in Largo, FL - kr4yl@arrl.net IC  
 24.26.70.138:KA2TOC <----> Q#605259 -FLPINLARGO -245-<530>  
 \*208.222.150.140:W0IBM <----> NA0R>APW245,N0JUP-1,W0MXW-1\*,WIDE:>291425  
 Location: Johnston,Ia  
 12.23.104.112:KJ7AZ <----> =4147.25N/10714.56WIPHG2150/WinAPRS  
 2.4.7 -WYCARRAWLINS -247-<530>  
 \*159.19.146.64:KF4ERV-10 <---->  
 N8GWK>APW245,K4DMU-10\*,WIDE7-5:=3900.00N/08400.00WZPHG0000/WinAPRS  
 2.4.5 -245-<520>  
 172.155.47.230:K5HAB-1 <----> ECHO was OFF  
 \*207.50.44.115:KB5WIO <---->  
 KB5WIO>APW241,TCPIP\*:\_06160645c154s012g021t076r000p000h57b10019wU2K  
 165.230.133.74:WUZZ <----> \_06160645c328s000g001t068r000p000h99b10103mDAV  
 \*159.19.146.64:KF4ERV-10 <---->  
 WB9TLH-10>APRS,K4DMU-2\*,WIDE5-5:\_06160642c000s000g000t070r000p000h91b100  
 73uU2K  
 24.26.70.138:KA2TOC <----> IN-147A -FLPINSEMINOLE-246-<630>  
 \*204.117.8.17:KC4LWI <---->  
 WB4Q0J-5>APRS,WIDE,WIDE,WIDE:!3711.08N/08010.03W#PHG5860/WIDE 3960'POOR MTN  
 \*24.26.70.138:KA2TOC <---->  
 N2MNC-4>APZ033/V:=2751.83N/08243.49W\_002/002g002t079r000p000h85b10130zRS  
 W  
 wa4dsy.net:IGATE <----> &PHG9300/Boston HF GATEway doc@mitre.org  
 \*24.26.70.138:KA2TOC <---->  
 WB4PBF-2>APW242/V:=2746.20N/08238.41W\_PHG2338/Downtown  
 St.Pete-PinellasSkywarn  
 24.26.70.138:KA2TOC <----> wb4pbf@arrl.net -FLPINST.PETER-242-<530>  
 \*24.26.70.138:KA2TOC <---->  
 KF4KUL>APRX46/V:@160755z2749.64N/08239.01W\_137/001g004t080r000p000...h10b10  
 143d  
 24.26.70.138:KA2TOC <----> U2k  
 \*208.61.144.183:KD4BBM <---->  
 KD4BBM>APW246,TCPIP\*:=2554.43N/08020.18WIPHG5030/Miami I-Gate -FLDADMIAMI  
 LA-246-<630>  
 208.61.144.183:KD4BBM <----> =2554.43N/08020.18WIPHG5030/Miami  
 I-Gate -FLDADMIAMI LA-246-<630>  
 \*24.26.70.138:KA2TOC <---->  
 KA2TOC>APW246,TCPIP\*:=2803.20N/08232.36W-PHG7130/WinAPRS  
 4.0 -FLHILTAMPA -246-<530>  
 24.26.70.138:KA2TOC <----> =2803.20N/08232.36W-PHG7130/WinAPRS  
 2.4.0 -FLHILTAMPA -246-<530>  
 165.230.133.74:WUZZ <----> \_06160649c328s000g001t069r000p000h99b10103mDAV  
 \*12.23.104.112:KJ7AZ <---->  
 KJ7AZ>APW247,TCPIP\*:=4147.25N/10714.56WIPHG2150/WinAPRS  
 2.4.7 -WYCARRAWLINS -247-<530>  
 12.23.104.112:KJ7AZ <----> =4147.25N/10714.56WIPHG2150/WinAPRS  
 2.4.7 -WYCARRAWLINS -247-<530>  
 \*209.18.20.63:KB8SSH <---->  
 N9DE>APW243,KG9CN-10,WIDE\*/V:=3937.15N/08606.10W/PHG9170/WinAPRS 2.4.3; Bob  
 Greenwood -INJOHGREENW00-243-<520>  
 172.155.47.230:K5HAB-1 <----> ECHO was OFF  
 \*24.26.70.138:KA2TOC <---->  
 KF4KUL>APRX46/V:@160758z2749.64N/08239.01W\_139/004g005t080r000p000...h09b10  
 143d  
 24.26.70.138:KA2TOC <----> U2k

---  
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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

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You are currently subscribed to aprssig as: lyris.aprssig@tapr.org  
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---

## 923. [aprssig] RE: Monitoring on Port 14502

From: Steve Dimse <k4hg@tapr.org>  
Date: Mon, 19 Jun 2000 19:56:10 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91862-2000.06.19-18.59.50--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 6/19/00 7:46 PM Chris Schwab (1schwab1@tampabay.rr.com) wrote:

>All,  
>  
>Looking at this, KA2TOC is local to me.  
>  
>Is this an issue with his TNC's PACLEN setting? If so, what is the  
>recommended PACLEN to stop cutting it off at 80 characters? I'll get in  
>touch with the local APRS users and try to get them to change the PACLEN to  
>whatever the sig as a whole recommends.  
>  
No, it is (at least for Kantronics TNCs) SCREENLN. The correct (and  
default) value is 0. PACLEN is generally set to a high value, as there is  
no value in splitting an APRS packet.

Steve K4HG

---  
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---

## 924. [aprssig] Re: MapBlast strangeness?

From: Ray Vaughan <ray@rayvaughan.com>  
Date: Mon, 19 Jun 2000 19:56:33 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91863-2000.06.19-19.00.23--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Rather than the first map, I suspect it's the first map you click on. I clicked on the third map down  
first and got the same problem. I bet Mapblast isn't ready for a request to come out of no where...  
they want to give us some sort of introduction when they first hear from a new IP address.

If you look at the web page source, each map reference is pretty similar except for the LS: variable:

```
<A HREF="http://www.mapblast.com/map.mb?FAM=mapblast&MA=2&GC=X:-80.13317|Y:25.78283|LT:25.78283|LN:-80.13317|LS:8000|&IC=25.78283:-80.13317:100:KD4BBM-12&CMD=MAP&SEC=blast"><IMG SRC="http://www.vicinity.com/gif?&CT=25.78283:-80.13317:8000|&IC=25.78283:-80.13317:100:KD4BBM-12&FAM=mapblast&W=600&H=350"></A>
<A HREF="http://www.mapblast.com/map.mb?FAM=mapblast&MA=2&GC=X:-80.13317|Y:25.78283|LT:25.78283|LN:-80.13317|LS:400000|&IC=25.78283:-80.13317:100:KD4BBM-12&CMD=MAP&SEC=blast"><br><p><IMG SRC="http://www.vicinity.com/gif?&CT=25.78283:-80.13317:400000|&IC=25.78283:-80.13317:100:KD4BBM-12&FAM=mapblast&W=600&H=350"></A>
<A HREF="http://www.mapblast.com/map.mb?FAM=mapblast&MA=2&GC=X:-80.13317|Y:25.78283|LT:25.78283|LN:-80.13317|LS:2000000|&IC=25.78283:-80.13317:100:KD4BBM-12&CMD=MAP&SEC=blast"><br><p><IMG SRC="http://www.vicinity.com/gif?&CT=25.78283:-80.13317:2000000|&IC=25.78283:-80.13317:100:KD4BBM-12&FAM=mapblast&W=600&H=350"></A>
```

I wonder if we could trick MapBlast to get a connection to the Mapblast server as the APRS page opens.  
Maybe just displaying their logo:

[http://www.mapblast.com/myblast/images/logo\\_mapblast.gif](http://www.mapblast.com/myblast/images/logo_mapblast.gif)

as part of the page we get from findU.com would open a session?

Or it's a cookie issue.... not sure how to get around those.

At 04:26 PM 6/19/00 -0400, you wrote:

>I get the same thing with my Call Sign. I went up one zoom level and then back  
>and everything is fine. It just the first map from mapblast that is wrong.  
>  
>Thomas M. Schaefer wrote:  
>

> > Try this...  
> >  
> > Go to URL: map.findu.com/<your call>.  
> >  
> > When you get the three maps, click on the first one. This sends you to  
> > mapblast's site, with a map with the intersection of Young and Bliss street.  
> > If you click on zoom out and zoom back, it is the correct map. Is anyone  
> > else seeing this?

---

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---

## 925. [aprssig] D700 + WinAPRS

From: rbost@itexas.net (Roy Bost)  
Date: Mon, 19 Jun 2000 19:05:41 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91864-2000.06.19-19.09.27--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Here's the setup:

In the van:

D700 + Garmin 45 + Laptop with 2.4.7 WinAPRS

In the house:

V-7 + KPC-3 + Ver 2.4.7 WinAPRS

Question: Why does the van not show up on the Track List on the system in the house. In the house, clicking on the van icon and pressing the "R" key does NOT retrace the path of the van. The system in the van is set to GPSTEXT =to \$GPRM5. The van does show up in the STATION List.

Roy Bost N5TAM  
rbost@itexas.net

---

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---

## 926. [aprssig] Re: DIGI\_NED 0.1.2

From: Hamish Moffatt <hamish@cloud.net.au>  
Date: Tue, 20 Jun 2000 10:19:31 +1000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91865-2000.06.19-19.23.04--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Mon, Jun 19, 2000 at 12:48:29PM -0500, Jeff Brenton wrote:

> [of course, then you can get into the twisted logic of whether or not it is  
> legal to use a Gnu Public License tool or compiler to target a  
> closed-source machine, and the various variations floating around about  
> THAT flame war...]

I thought that was quite clear -- it is legal. gcc existed long before there were free kernels around.

73

Hamish

--

Hamish Moffatt VK3SB <hamish@debian.org> <hamish@cloud.net.au>

---

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---

## 927. [aprssig] Re: DIGI\_NED 0.1.2

From: Hamish Moffatt <hamish@cloud.net.au>  
Date: Tue, 20 Jun 2000 10:21:40 +1000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91866-2000.06.19-19.25.21--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Mon, Jun 19, 2000 at 02:21:34PM -0400, Jeff King wrote:

> I'm more likely to pay a shareware fee for a open source project then a proprietary  
> project. I know with the proprietary project, if the author tires of making 0.25USD/hr  
> on his project, at least I have the chance of making it what I want it to be.

Me too. Plenty of wasted man-years in reimplementing things over and over.

Hamish

--

Hamish Moffatt VK3SB <hamish@debian.org> <hamish@cloud.net.au>

---

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---

## 928. [aprssig] Re: D700 + WinAPRS

From: Gerry Creager N5JXS <gerry@cs.tamu.edu>  
Date: Mon, 19 Jun 2000 19:59:18 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91871-2000.06.19-20.03.32--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Roy Bost wrote:

>

> Here's the setup:

> In the van:

> D700 + Garmin 45 + Laptop with 2.4.7 WinAPRS

> In the house:

> V-7 + KPC-3 + Ver 2.4.7 WinAPRS

>

> Question: Why does the van not show up on the Track List on the system in  
> the house. In the house, clicking on the van icon and pressing the "R" key  
> does NOT retrace the path of the van. The system in the van is set to  
> GPSTEXT =to \$GPRMS. The van does show up in the STATION List.

Check out this excellent summary of NMEA sentences and their structure:  
<http://www.vancouver-webpages.com/pub/peter/nmeatype.txt>

There's no GPRMS, but there is a GPRMC, which is the "normal"  
sentence...

73, gerry n5jxs

--

Gerry Creager                    gerry@cs.tamu.edu, gerry@page4.cs.tamu.edu  
Network Engineering                    |Research focusing on  
Computer Science Department            |Satellite Geodesy and  
Texas A&M University                    |Geodetic Control  
979.458.4020 (Phone) -- 979.847.8578 (Fax)

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## 929. [aprssig] RE: Monitoring on Port 14502

From: Ray Vaughan <ray@rayvaughan.com>  
Date: Mon, 19 Jun 2000 21:07:44 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91872-2000.06.19-20.11.20--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 07:56 PM 6/19/00 -0400, you wrote:

>No, it is (at least for Kantronics TNCs) SCREENLN. The correct (and  
>default) value is 0. PACLEN is generally set to a high value, as there is  
>no value in splitting an APRS packet.

Just checked that on the KAM I use here on the IGATE. It's SCREENL, not SCREENLN. But I'm at 0 anyway  
:)

My PACLEN is 128/128. Anything else I should check to find out how I'm causing the wrong data? I  
currently have 7 wrong KD4BBM SSIDs on the server.

Ray J. Vaughan, MS, CBTE, CERT  
KD4BBM PG-7-15266  
<http://www.rayvaughan.com/>  
ray@rayvaughan.com  
ray@2-way.com

---

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---

### 930. [aprssig] RE: Monitoring on Port 14502

From: "Aaron Morrison" <ae4ko@amsat.org>  
Date: Mon, 19 Jun 2000 21:28:15 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91874-2000.06.19-20.31.46--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 19 Jun 2000, at 19:56, Steve Dimse wrote:

> No, it is (at least for Kantronics TNCs) SCREENLN. The correct (and  
> default) value is 0. PACLEN is generally set to a high value, as there is  
> no value in splitting an APRS packet.  
>  
> Steve K4HG

Setting PACLEN to 0 will prevent splits no matter what length.

IIRC, I also seem to remember a discussion a while back about  
gated messages being prematurely cut where some TNC's were  
set to a non-zero paclen and that the default init.tnc files for DOS  
(and maybe windows) had a "wrong" default (which has since been  
fixed.)

---  
Random Quote:

A penny saved is ridiculous.

---  
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---

### 931. [aprssig] RE: Monitoring on Port 14502

From: Steve Dimse <k4hg@tapr.org>  
Date: Mon, 19 Jun 2000 21:31:56 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91875-2000.06.19-20.35.29--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 6/19/00 9:07 PM Ray Vaughan (ray@rayvaughan.com) wrote:

>  
>Just checked that on the KAM I use here on the IGATE. It's SCREENL, not  
>SCREENLN. But I'm at 0 anyway :)  
>  
>My PACLEN is 128/128. Anything else I should check to find out how I'm  
>causing the wrong data? I currently have 7 wrong KD4BBM SSIDs on the  
>server.  
>

Again, none of these string length problems could cause what is occurring  
with your call. Someone is, accidentally or deliberately, taking live  
data from the stream, mangling it and resending it. If you look closely  
at the data, there are three "manglings" associated with each of these  
packets. First, the SSID is changed. Second, the To call is prefixed with  
a single letter. Finally, the data portion is truncated at 41 characters.  
This sort of precise, repetitive alteration has the hallmarks of either a  
whopper of a bug or deliberate QRM.

If someone wants to track this down, you should monitor 10152 for this  
sort of bogus data and see where it is coming from.

Steve K4HG

---  
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---

### 932. [aprssig] Re: DIGI\_NED 0.1.2

From: "Jeff Brenton" <jeffb@espi.com>  
Date: Tue, 20 Jun 2000 02:01:59 -0000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "aprssig" <aprssig@tapr.org>  
Message-ID: <LYR842-91884-2000.06.19-21.07.57--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> Getting the source would be a good carrot for paying the shareware fee.

Yes, that IS a good incentive, but... that's not "Open Source", and definitely not GPL. If it were, the first person to register could post the source everywhere, and the incentive vanishes....

I'm just wanting it clear to all that these are different "markets". As a Xastir user, I'm glad that the source is there, should I want to get my typing calouses back. It also irritates me that Win/MacAPRS has had a long-standing problem with not closing log files periodically that I could have fixed in 10 minutes, had I had access to the source.

I'm not sure I \*want\* to see the source to APRS+SA! B-)

Jeff Brenton, Amateur Radio call sign KA9VNV  
http://espi.com  
Questionable web page: http://dididahdahdidit.com

---

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### 933. [aprssig] Re: DIGI\_NED 0.1.2

From: Jeff King <jeff@aerodata.net>  
Date: Mon, 19 Jun 2000 22:36:13 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: aprssig <aprssig@tapr.org>  
Message-ID: <LYR842-91889-2000.06.19-21.38.08--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Jeff Brenton wrote:

> > Getting the source would be a good carrot for paying the shareware fee.  
>  
> Yes, that IS a good incentive, but... that's not "Open Source", and  
> definitely not GPL. If it were, the first person to register could post the  
> source everywhere, and the incentive vanishes....

It depends what the licensing agreement is. It may not allow that.

Possibly we are not thinking of the same thing. How do you define "Open Source"? I define that in the broadest terms possible, in the sense I can at least get ahold of it.... Open Source doesn't mean to me that the laws of copyright no longer apply, just that I can tinker with the source for my own amusement.

BTW, one of the biggest income producers of "open source" is support and not the actual sale of the source code.... this is how many of the Linux companies make their money.

I'm \*not\* saying open source makes sense in all markets, it doesn't. I was just suggesting in a hobbyist market, where the "income" one derives from the labor is more peer recognition than money, it just makes more sense to go the open source route. Ask for donations, maybe only offer support to those that pay there fees.

Or, to quote a often heard phrase on the NOS-BBS list from years ago, "Got a question, go read the source!!". You don't like something, fix it yourself!

73

Jeff

---

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---

### 934. [aprssig] Re: DIGI\_NED 0.1.2

From: Timothy J Salo <tjs@tc.umn.edu>  
Date: Mon, 19 Jun 2000 22:06:12 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91904-2000.06.19-22.09.57--lyris.aprssig#tapr.org@lists.tapr.org>



Rendered body type: text/plain

> To: aprssig@lists.tapr.org  
> Subject: Re: [aprssig] Re: DIGI\_NED 0.1.2  
>  
> Date: Mon, 19 Jun 2000 22:36:13 -0400  
> From: Jeff King <jeff@aerodata.net>  
> Subject: [aprssig] Re: DIGI\_NED 0.1.2  
> [...]  
> ... How do you define  
> "Open Source"? I define that in the broadest terms possible, in the  
> sense I can at least get ahold of it.... Open Source doesn't mean to  
> me that the laws of copyright no longer apply, just that I can tinker with  
> the source for my own amusement.  
> [...]

See <http://www.opensource.org/>, and <http://www.opensource.org/osd.html>  
(The Open Source Definition).

By the way, I strongly favor a Berkeley- or BSD-style license over a  
GPL license. See <http://www.opensource.org/licenses/>.

-tjs

---

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---

### 935. [aprssig] Re: DIGI\_NED 0.1.2

From: Jeff King <jeff@aerodata.net>  
Date: Mon, 19 Jun 2000 23:31:43 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91910-2000.06.19-22.33.14--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Timothy J Salo wrote:

>  
> See <http://www.opensource.org/>, and <http://www.opensource.org/osd.html>  
> (The Open Source Definition).

Are these the same guys that copyrighted the term "opensource"?

opensource to me means somehow being able to get the source on a non-exclusive  
basis. Using the definition on the [opensource.org](http://www.opensource.org) web page means that nothing  
TAPR put out for the PIC-E could be considered "Open Source".

Or is there another term better suited here?

-Jeff

---

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---

### 936. [aprssig] Xastir with Jnos Linux

From: Tony McClellan <tony@vk3aym.ozeham.net>  
Date: Tue, 20 Jun 2000 13:55:27 +1000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91914-2000.06.19-22.58.24--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Has anyone interfaced Xastir with jnos linux. Is it possible to port  
packets via an interface  
from jnos to Xastir

Tony

---

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## 937. [aprssig] [ne1h@ne1h.dyndns.org: [amsat-bb] An open letter to the Amsat Software authors (with a little political incorrectness!)]

From: Hamish Moffatt <hamish@cloud.net.au>  
Date: Tue, 20 Jun 2000 14:03:13 +1000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91917-2000.06.19-23.06.54--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Looks like there's a bit of momentum for open source ham software at the moment. From the AMSAT mailing list...

73  
Hamish

----- Forwarded message from "Alan K. Adamson" <ne1h@ne1h.dyndns.org> -----

Reply-To: <ne1h@ne1h.dyndns.org>  
From: "Alan K. Adamson" <ne1h@ne1h.dyndns.org>  
To: <amsat-bb@AMSAT.Org>  
Cc: "Stephen Diggs" <w4epi@mediaone.net>  
Subject: [amsat-bb] An open letter to the Amsat Software authors (with a little political incorrectness!)  
Date: Mon, 19 Jun 2000 21:55:46 -0400  
X-Priority: 3 (Normal)  
X-MSMail-Priority: Normal  
Importance: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600

To: All Amsat software authors

Ok, help me out here. I recently decided to play with "the station". First I noticed that it hasn't been updated since '97 based upon the files, oh, yea, there was one update in '98. It's completely a 16bit app and it's a little hard to work with with the 11111-11111-1 license code. It doesn't appear to be supported any longer? Or at least I can't find a "home" for it. It doesn't run very well under windows 98SE. Actually crashes explorer on occasion.

So, how about an update? 32 bit, built with Visual Studio 6 or later, and fix some of the little things. Heck it's still a Beta release, has been since the very first release, in fact the release file wasn't updated with the 98 fixes at all.

Ok, now let me climb off my soapbox. I'm not really trying to pick a fight. Much to the opposite, I'd like to help. I'll be happy to take a shot at making it into a 32bit app and revising it. But, there is this issue with source.

Why is that we haven't gone OPEN source on this stuff yet? Heck, I'd bet it would see all kinds of enhancements and bug fixing! It's exactly what this kind of software needs....People who want to fix and enhance it and not be frustrated because they can't contact the author for help or fixes.

So, how about a little grass roots movement. Let's go open source with a GPL license on these utilities and drivers that most of us want to count on and hope continue. I know there are donation \$\$\$'s that you want to protect, but I'm not sure you'd loose any more than you do because the software hasn't been updated or enhanced. If you build something that people want to use, of course, they will purchase a license. You are always going to have the ones that don't but I'll bet you'd be surprised.

Ok, so, what does it take to make this happen? Or did I just spend bits, blowing in the wind!!!

Alan Adamson  
ne1h@ne1h.dyndns.org

-----  
Via the amsat-bb mailing list at AMSAT.ORG courtesy of AMSAT-NA.  
To unsubscribe, send "unsubscribe amsat-bb" to Majordomo@amsat.org

----- End forwarded message -----

--  
Hamish Moffatt VK3SB <hamish@debian.org> <hamish@cloud.net.au>

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---

### 938. [aprssig] GPS Roof Mount Antennas

From: wo4u@juno.com  
Date: Tue, 20 Jun 2000 00:03:57 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91918-2000.06.19-23.08.18--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Does anyone have a source for the Trimble Hard Mount GPS antenna or any other good Roof Mount GPS antenna that will provide a proper, low profile waterproof seal?? I initially plan to use it with the Garmin III which will be mounted in a position that does not have a view of the sky. I am rearranging my mobile APRS station.

Thanks for all replies

Paul - W04U

---

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<http://dl.www.juno.com/get/tagj>.

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

---

### 939. [aprssig] Re: GPS Roof Mount Antennas

From: Gerry Creager N5JXS <gerry@cs.tamu.edu>  
Date: Mon, 19 Jun 2000 23:29:36 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91922-2000.06.19-23.33.42--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

wo4u@juno.com wrote:

>  
> Does anyone have a source for the Trimble Hard Mount GPS antenna or any  
> other good Roof Mount GPS antenna that will provide a proper, low profile  
> waterproof seal?? I initially plan to use it with the Garmin III which  
> will be mounted in a position that does not have a view of the sky. I  
> am rearranging my mobile APRS station.

<http://www.navtechgps.com> does a good job and knows what they're talking about.

--

Gerry Creager                   gerry@cs.tamu.edu, gerry@page4.cs.tamu.edu  
Network Engineering                   |Research focusing on  
Computer Science Department           |Satellite Geodesy and  
Texas A&M University                |Geodetic Control  
979.458.4020 (Phone) -- 979.847.8578 (Fax)

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### 940. [aprssig] Re: GPS Roof Mount Antennas

From: Rick Gilligan <rick@case.net>  
Date: Mon, 19 Jun 2000 22:01:58 -0700 (PDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91939-2000.06.20-00.05.45--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Tue, 20 Jun 2000 wo4u@juno.com wrote:

> Does anyone have a source for the Trimble Hard Mount GPS antenna or any  
> other good Roof Mount GPS antenna that will provide a proper, low profile  
> waterproof seal?

Try [www.micropulse.com](http://www.micropulse.com).

Model 2335TB (amplified).

Their web site has drawings.

Mounts in a 1" hole, with double stick tape and a C clip on the inside.

I did the usual trick of putting a bead of non-acidic RTV (silicone seal)

around the antenna to keep the double stick tape from weathering. If you were especially concerned, you might want to put a bead of RTV on the inside roof/antenna boundary.

The antenna is .98" in diameter for the part that mounts through the 1" hole, so it fits quite snugly.

The coax is available in any reasonable type desired (I prefer RG-316 teflon jacketed cable), with a right angle SMB for the antenna end, and whatever you want on the GPS end.

The teflon cable is easy to route, as it is relatively stiff, and can be drawn over sharp edges with less possibility of damage, compared to thermoplastic (RG-174) jacketed cable (RG-174 is cheap junk!).

For ease of routing the cable, have them leave the GPS-end connector loose (unattached) and mount it after running the cable. Also, use a layer of heat shrink to act as a strain relief where the coax meets your GPS-end connector.

I mounted mine directly above the sunroof controls on my Land Cruiser.

Drill a small pilot hole from the inside (for accurate location), then drill a 1" hole from the outside. If space is tight, place C clip near the hole, then place antenna on roof, then move clip into place. There was not enough clearance, in my case, to insert the clip after mounting the antenna.

Practice with the adhesive covered on the antenna, before removing it, as it will be extremely difficult to remove without replacing the double-stick tape completely.

The C clip makes for a mechanically sound antenna mounting (theft resistant).

Check out the picture on my web site, the antenna is just above the rear view mirror and the sunroof controls on the leading edge of the roof (just in front of the sunroof). It's as far away from the transmit antennas as possible, while still on the roof.

<http://www.w6bhz.calpoly.edu/~rgilliga/pl150034.jpg>

This antenna does have a single element ceramic filter. I see no change in c/n ratios for satellites while transmitting on 2M or 70cm, compared to a nearly 20db change with an old amplified patch antenna which resulted in loss of satellite lock on long transmissions.

I recommend placing an order for a couple of antennas at the same time (they are a small manufacturer, give them a break!), so get some of your friends together to keep their overhead low.

They have a wide selection of antennas (the patch models with mag-mount bases are inexpensive), but many of them are more expensive than you would ever want to pay... the 2335 model is inexpensive and has fine performance for land vehicles.

I've been a customer for quite a few years, and can highly recommend Micropulse. The engineers are great guys. Tell them which GPS you want to use it with, and the cable length, and they will be sure to send the antenna with the proper amount of gain (too much can be a problem!).

Good luck. I highly recommend external antennas in a clear spot on the roof. Just try tracking in the woods, or when driving twisty roads in the canyons. The difference in performance is astounding, compared to an antenna sitting on the dashboard. Try a 180 degree change in direction when the GPS hasn't been able to see behind you... for the dash mounted antennas. Then try it with an antenna mounted in the clear on the roof. I'm picky. Also, possibly less multipath on the roof (not always!).

73

Rick  
N6NL

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## 941. [aprssig] RE: Monitoring on Port 14502

From: Ian Wade <Ian.Wade@care4free.net>  
Date: Tue, 20 Jun 2000 06:11:09 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91943-2000.06.20-00.22.17--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In article <LYR14778-91872-2000.06.19-20.11.20--Ian.Wade#care4free.net@lists.tapr.org>, Ray Vaughan <ray@rayvaughan.com> writes

>  
>My PACLEN is 128/128.

Hi Ray. I examined some logs the other day for maximum data length in APRS packets, and discovered many above 128 (the longest was 141).

The best setting for PACLEN is 0 (i.e. =256 bytes). It won't do any harm, and it will guarantee no splitting.

73  
Ian, G3NRW  
Technical Editor, APRS Protocol Specification  
\*\*\*\*\* Third draft now available \*\*\*\*\*

--  
+-----+  
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |  
| email: g3nrw@arrrl.net |  
| |  
| APRS PROTOCOL SPEC: <http://www.tapr.org/tapr/html/Faprswg.html> |  
| APRS DECODER: <http://www.netro.co.uk/aprs.htm> |  
+-----+

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## 942. [aprssig] Interfacing a PC Keyboard to APRS equipment

From: Darrell Hale <halehome@home.com>  
Date: Tue, 20 Jun 2000 02:24:59 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91949-2000.06.20-01.27.19--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I have seen comments previously about using a PC keyboard to control various APRS projects.

The July 2000 issue of Poptronics contains a 7 page article about using AT style keyboards in a hardware project. The article includes a 68HC705J1A based demonstration circuit with source code available online at:

[ftp://ftp.gernsback.com/pub/pop/pc\\_keyboard.zip](ftp://ftp.gernsback.com/pub/pop/pc_keyboard.zip)

I have only scanned the article briefly, but it looks like it would be of interest to those who would want to know more about how the PC/AT keyboard works and ways to use one in a project. So this is a heads-up to go checkout a copy of the magazine.

Darrell

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## 943. [aprssig] Re: DIGI\_NED 0.1.2

From: "Henk de Groot (EMN)" <Henk.de.Groot@emn.ericsson.se>  
Date: Tue, 20 Jun 2000 09:48:17 +0200  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91952-2000.06.20-03.19.40--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hello Jeff and others,

> -----Original Message-----  
> Just to remind people that "Open Source" does not equate to  
> free, either...

I think 'free' is not the point, it is the development-model. We had a perfect example of this here on the SIG.

Case 1)

Garbled messages on an I GATE. This went into a massive debugging session and nailed down the problem in APRSD, which then could be immediately fixed.

Case 2)

WinAPRS crashes on bad input. Knowbody knows except the author, you are totally and completely depending on them. You can't lookup the source yourself or give the author patches like I do for Xastir. Of course the authors support their product and do the best they can, but you are completely depending on them and also the authors can spend their time only once.

> And some of the authors have substantial investment in  
> software tools that are needed to support various endeavors.

Yes, true. I can understand that if you run a business. But even then there are other ways to earn back your investment. But I don't think the authors of the pay-for software earn any money at all either and handling licence fees and keeping track of them is not for free either.

I guess you all know the "The Cathedral and the Bazaar" document by Eric S Raymond which prompted Netscape to open up their source (ref: <http://www.tuxedo.org/~esr/writings/cathedral-bazaar/cathedral-bazaar.html>). If you read it you understand by I so frequently release new versions. I think this development method is a 'tool' that is more worth than all the tools you can buy.

> [of course, then you can get into the twisted logic of  
> whether or not it is  
> legal to use a Gnu Public License tool or compiler to target a  
> closed-source machine, and the various variations floating  
> around about  
> THAT flame war...]

This has been solved long ago with the General Public Library Licence, you can make closed-source products with open-source tools and libraries. That why commercial software vendors can port their software to Linux. Im sure the Oracle database program is compiled with GCC and linked with 'glib' but still is as closed as software can be.

My own motivation to go for GPL:

- 1) I earn money with my regular job, don't need to squeeze out money from what I do for a hobby.
- 2) Others can contribute parts or rip-off parts for other products which even may have use for me in the future.
- 3) Freedom of movement, I can not be forced to do anything and if you don't like it; hey, here is the source, fix it yourself.
- 4) If I get bored then somebody else can take over, no problem.

This last case happend to the author of TPFCX for example. He got really bored and released this product finally as GPL source. This TPFCX is a driver which is used a lot in Europe for cheap BayCom modems.

This enabled me to enhance the product to include the latest 'TheFirmware' version and fix long standing DAMA problems with this driver. Secondly I was able to add new modems (YAM and BPQ-over-ethernet). But now I also ripped of the hardware-drivers for use in DIGI\_NED. I also reused the SCC part for a FlexNet SCC driver.

Had this been closed-source then you would not have had my digipeater today at all, I whould not have started the project due to the difficulty to drive al this different hardware. Why do you think that DosAPRS only support TAPR type modems on a serial line, that's not because it easy to add other types of modems... I already expressed that one is free to reuse the AX25\_MAC driver to cope with a multitude of other modems without having to bother about specific hardware. And this is true for anybody; if you can use it, take it.

But every author can pick its own license method and if they charge money to earn back their tools, thats fine with me. It is their choice. But remember that as an author you miss a lot of competent debug-hunters and contributors, but thats the price you have to pay

to keep it for your eyes only.

My \$0.02 rambling, I will not get back on this and continue to produce GPL code for any hobby-project I undertake. Back to the APRS topic now.

Kind regards,

Henk.

--

#####  
The difference between theory and practice in practice is bigger than the difference between theory and practice in theory.

Henk de Groot | Tel: +31 53 4505400 Ext: 5400  
<Henk.de.Groot@emn.ericsson.se> | Ericsson Business Mobile Networks

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#### 944. [aprssig] DIGI\_NED 0.1.2 on the web

From: "Henk de Groot (EMN)" <Henk.de.Groot@emn.ericsson.se>  
Date: Tue, 20 Jun 2000 09:59:07 +0200  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91954-2000.06.20-03.37.14--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

F.Y.I.

PE1MEW updated the web and it now contains the latest DIGI\_NED version. The pages should now also correctly appear in Netscape, after the site upgrade there were some problems.

Links:

<http://www.homepages.hetnet.nl/~remko>  
<http://home.hetnet.nl/~remko>  
[http://connect.to/digi\\_ned](http://connect.to/digi_ned)

Kind regards.

Henk.

--

#####  
The difference between theory and practice in practice is bigger than the difference between theory and practice in theory.

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<Henk.de.Groot@emn.ericsson.se> | Ericsson Business Mobile Networks

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#### 945. [aprssig] Re: DIGI\_NED 0.1.2

From: Roger Barker <roger@peaksys.co.uk>  
Date: Tue, 20 Jun 2000 09:58:10 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91956-2000.06.20-04.01.58--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In article <LYR1643-91952-2000.06.20-03.19.40--ROGER#PEAKSYS.CO.UK@lists.tapr.org>, Henk de Groot (EMN) <Henk.de.Groot@emn.ericsson.se> writes  
>Hello Jeff and others,  
>  
>> -----Original Message-----  
>> Just to remind people that "Open Source" does not equate to  
>> free, either...  
>  
>I think 'free' is not the point, it is the development-model. We  
>had a perfect example of this here on the SIG.  
>  
>Case 1)  
>Garbled messages on an I GATE. This went into a massive debugging  
>session and nailed down the problem in APRSD, which then could

>be immediately fixed.  
>  
>Case 2)  
>WinAPRS crashes on bad input. Knowbody knows except the author, you  
>are totally and completely depending on them. You can't lookup the  
>source yourself or give the author patches like I do for Xastir. Of  
>course the authors support thir product and do the best they can,  
>but you are completely depending on them and also the authors can  
>spend their time only once.

Like all these things, I bet that if you gave the author a sample of data that causes the crash, he would fix it very quickly! Most of us don't need someone else to fix our code, we just need an example of something that makes it go wrong. Unfortunately, reports like "It doesn't work!" often don't provide sufficient information to find the problem.

>> And some of the authors have substantial investment in  
>> software tools that are needed to support various endeavors.  
>  
>Yes, true. I can understand that if you run a business. But even then  
>there are other ways to earn back your investement. But I don't  
>think the authors of the pay-for software earn any money at all  
>either and handling licence fees and keeping track of them is not  
>for free either.

Speaking personally - Not only do I have an investment in software tools, I also have an investment in reusable code, developed over a good many years of writing software. I am also well aware of the realities of life in the real world of software development, and I would always regard releasing my code as being equivalent to throwing away a financial investment.

Conclusion - open source is a great idea, if your only involvement in writing software is as a hobby.

--  
Roger Barker, G4IDE - roger@peaksys.co.uk  
For UI-View go to - <http://www.packetradio.org.uk>  
For WinPack go to - <http://www.peaksys.co.uk>

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## 946. [aprssig] THD7A(G) and GPSIII+ compatability

From: "bob" <[w2g3zfj@unix.asb.com](mailto:w2g3zfj@unix.asb.com)>  
Date: Tue, 20 Jun 2000 07:43:57 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-91958-2000.06.20-06.43.13--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-91958-2000.06.20-06.43.13--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Hi Folks

I saw a message yesterday from Ralph querying the new 'G' D7A and the GPSIII+. This got me worried so I tried it out last night. Now, bear in mind it worked perfectly before the upgrade!

The D7A picked up the NMEA from the GPS and beacons it OK, however, I could not get the GPS to respond to the \$GPWPL sentence i.e. it would not plot received stations on the map/waypoint list. Has anyone else seen this? I tried setting the output from 6 to 9 digits and also tried the MGN type but all to no avail. I hooked up the D7A(G) to a PC and captured the sentence:

\$GPWPL,4044.00,N,07305.00,W,G3ZFJ\*7E

Anyone see anything wrong with this?

Comments anyone??

Thanks

73 de bob  
[w2/g3zfj](mailto:w2/g3zfj)

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## 947. [aprssig] Re: DIGI\_NED 0.1.2

From: Steve Dimse <[k4hg@tapr.org](mailto:k4hg@tapr.org)>  
Date: Tue, 20 Jun 2000 07:56:04 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-91960-2000.06.20-06.59.40--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-91960-2000.06.20-06.59.40--lyris.aprssig#tapr.org@lists.tapr.org)>



Rendered body type: text/plain

```
>>Case 1)
>>Garbled messages on an I GATE. This went into a massive debugging
>>session and nailed down the problem in APRSD, which then could
>>be immediately fixed.
>>
This is a terrible example to prove a point about open source. The
evidence pointed to aprsd for weeks, but no one did anything until the
original author reluctantly began working on the program again. No one
else did anything with the source code, they just kept whining on the SIG
until Dale couldn't take it any longer. Not exactly a case I would want
to put forward for open source.

>
>Speaking personally - Not only do I have an investment in software
>tools, I also have an investment in reusable code, developed over a good
>many years of writing software. I am also well aware of the realities of
>life in the real world of software development, and I would always
>regard releasing my code as being equivalent to throwing away a
>financial investment.
>
>Conclusion - open source is a great idea, if your only involvement in
>writing software is as a hobby.
```

There are cases where it isn't worthwhile when you are programming as a hobby, either. I had been considering releasing my javAPRS source code, however it is not my best work by a long shot. My first (and only) project in Java, it lacks a coherent architecture, and it is full of work-arounds reflecting the primitive state of the Java VM 4 years ago. Since there was a prohibition on the release of source code in those days, I never thought it would see the light of day and made no attempt to document it well.

So, to prepare the code for release as something I would want my name on would take me a few months worth of work, something I'm not going to do. Over the last year, 4 people have written me to request the source code, which I sent them. Two were never heard from again, the other two seemed to make a genuine attempt at it, but came to me frequently with questions. Out of guilt for writing such bad code, I spent dozens of hours looking at it to answer their questions. Despite all that effort, not a single line of new code was ever sent back to me, or released elsewhere to the best of my knowledge. So, I wasted a lot of time for no return. And please, don't write me now asking for the code...the sad fact is, if you have the skills to maintain the javAPRS code, you could write it yourself, and do it better, in less time.

Generally, an good open-source project must be one where there are more than one or two programmers interested in improving the code, they must write clean, non-idiomatic, self documenting code, and they must be good at reading and understanding other people's code. The latter is especially important...it is a skill very different from writing your own code, and one that is difficult to acquire. Most hobbyist programmers have no skill or experience with this. I have a BS in Comp Sci, and work for Hughes Aircraft for a couple years, but it has been many years since I have worked as part of a programming team, and I am pretty rusty at it. It ain't easy!

Open source is this year's fad...like Java, server push, and distributed client file systems (Napster). It will join those others in having a place in the software universe, but it is no panacea. IMHO, it is wrong to try to browbeat authors into coughing up their goodies, they all know what open source is, and the choice must be theirs.

Steve K4HG

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## 948. [aprssig] Re: DIGI\_NED 0.1.2

From: "Henk de Groot (EMN)" <Henk.de.Groot@emn.ericsson.se>  
Date: Tue, 20 Jun 2000 13:48:22 +0200  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91961-2000.06.20-07.01.46--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hello Roger and the group,

You just tricked me into a response, although I said I would not. Okay,

exemption time...

> -----Original Message-----

> Like all these things, I bet that if you gave the author a sample of  
> data that causes the crash, he would fix it very quickly! Most of us

One problem is reproduction of the fault, some are hard to reproduce and you can possibly not have all the permutations of equipment that are used with your code in the field. Of course "it doesn't work" type errors are useless. In the example I mentioned a lot of people reported the same problem, but Mark cannot reproduce it and he is the only one with debugging capability. So it is stuck now. Although nobody seems to be competent to produce the data doesn't mean that the problem does not exist.

One important thing however. By hiding the source you can not have static checking, people looking at your code and finding bugs before they even occur. Here at our QRL we have code reviews as mandatory part of the development process, just like any other decent SW company I might add. With little effort faults are detected that could cause big problems in the field and would be hard to track and reproduce. When having co-developers with your code you will get those reviewers since they have to dig into the code and understand it.

> Speaking personally - Not only do I have an investment in software  
> tools, I also have an investment in reusable code, developed  
> over a good  
> many years of writing software. I am also well aware of the  
> realities of  
> life in the real world of software development, and I would always  
> regard releasing my code as being equivalent to throwing away a  
> financial investment.

A lot of people don't want others to have something for free because they themselves had to pay for it one way or the other. But do you have more or less if you did? I see this type of argument constantly also in CW discussions. Just as a mind experiment think about what would happen if you published your database of reusable code. Would it ruin your business? Or would it act as a seed from which many other products could grow up.

If others do the same than you can do onto them what they did onto you. Therefore products derived from GPL shall also be GPL. So you can use investments in reusable code by others and then gaining a financial investment too. If it works, it works both ways. Problem is that somebody has to start and nobody dares - also a matter of thrust if the other developers are going to do the same. I can say I looked at other GPL code and reused parts in my code and it saved me a lot of time. Now other authors can use bits and pieces from my code - i.e. it really works both ways.

About the investment loss. Serious competition will in the current situation develop a database of reusable code themselves too. My understanding is that Mac/Win/XAPRS also uses reusable code, so you having it is not really an advantage over the competition - assuming the quality of the reusable code is on an equal level. So both you and the Sproul brothers had to do the same investment with the net result that neither gained any significant advantage over the other but sure lost a lot of time on the real work.

Now you suffer from closed software yourself too. You depend on AGWPE and I know how George works. Now AGWPE is feature rich, but it is not brilliant in stability - at least not used to when I last looked at it over 1 year ago. You depend on it but nothing you can do about it. It is inevitable that you must have felt helpless about it. Still AGWPE is sending out UI frames with all combinations of the reserved bits in the UI header you can think of, where the AX.25 spec says they should just be '1'. This is very simple to solve, but you are totally and completely dependent on George who doesn't care less about these bits.

I've had quite some discussion with him in the early days of AGWPE when I did beta testing for him. It was a struggle to get the DAMA and reserved bits corrected on the source and

destination fields. One of the bits is used to indicate PE1CHL's extended AX (modulo 128 numbering). The Linux 'listen' commands shows funny frames when you transmit normal AX.25 frames with the reserved bit in the SSID set wrong. It will be decoded as extended AX.25 frame which is wrong in this case.

In the end he fixed it after many explanations why he should and exactly which bits, but now it seems that he did not fix it for the digipeater fields. I could have easily send him a patch but without source thats just not possible.

It still could be that my assessment is wrong and that this is caused by UIview. Without source I have no means to verify anything so it is educated-guessing that APWPE does this - knowing the history. I have not studied how the AGWPE<->UIview interface works (yes, I know the AGWPE-API is public but I have no interest in it).

> Conclusion - open source is a great idea, if your only involvement in writing software is as a hobby.

I don't know if I agree. Anyway, every author has the right to determine what is allowed and what not with the frutes of his or her work. I will not do it for my hobby-software. What I write as a professional is copyrighted by my employer, so I don't have a say over that.

Now APRS packet is not main-stream so your package will stay the best for quite some time. But if enough desingers whoud start on an open-source viewer for Linux it would catch up fast. I guess the crittial mass for Xastir is to small to form a serious thread.

Kind regards,

Henk.

--

#####  
The difference between theory and practice in practice is bigger than the difference between theory and practice in theory.

Henk de Groot | Tel: +31 53 4505400 Ext: 5400  
<Henk.de.Groot@emn.ericsson.se> | Ericsson Business Mobile Networks

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## 949. [aprssig] Re: DIGI\_NED 0.1.2

From: "Henk de Groot (EMN)" <Henk.de.Groot@emn.ericsson.se>  
Date: Tue, 20 Jun 2000 15:44:03 +0200  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91971-2000.06.20-08.50.24--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hello Steve,

Sorry for the bad example :-).

> -----Original Message-----  
> So, to prepare the code for release as something I would want  
> my name on  
> would take me a few months worth of work, something I'm not  
> going to do.

Then don't do it. Just TAR it and if somebody wants it, fine. If they have problems with no documentation then they should not use it. It doesn't make things worse but at least gives a choice which is more than there is now.

> elsewhere to the best of my knowledge. So, I wasted a lot of  
> time for no  
> return. And please, don't write me now asking for the  
> code...the sad fact  
> is, if you have the skills to maintain the javAPRS code, you  
> could write  
> it yourself, and do it better, in less time.

Well add a readme to the code saying that this is it and questions will not be answered. I can write it for you if you want. Giving the source does not mean that you take the responsibility to teach successors or worse only 'interested' people. The net result is now worse, not even someone who wanted to use ideas from your code cannot do so anymore.

- > Generally, an good open-source project must be one where
- > there are more
- > than one or two programmers interested in improving the code,
- > they must
- > write clean, non-idiomatic, self documenting code, and they
- > must be good
- > at reading and understanding other people's code. The latter is

Well, for any project there should be enough people who want it. For example your intelligent beaconing in the HamHud is likely to attract much more programmers than javAPRS. I think it stands a better chance in an open-source project. Also if software is good enough then the incentive for programmers is gone to improve it. javAPRS runs so why hack on it? This will be true untils somebody thinks of nice new things or is annoyed by the bugs (if any) - and then you have a good chance that somebody will take the challenge - there has to be a purpose to start.

If I look at myself, you may ask how on earth I got the idea of building yet another digipeater. Well simple, another ham talked me into it. And the main purpose is to support home-brew-electronics. Building small electronic devices is declining - like anywhere else I guess. We need some simple electronics projects which are easy to build by anybody. So we are thinking about weather stations, doppler direction finders and devices like that. APRS is very suitable for transport since these devices are directly supported and there are already nice graphical viewers to view all this data. So what we need first is coverage and also software which we can control so we can add interfaces for these devices later.

I'm very enthousiatic about this since I firmly beleve that hams should experiment with electronics etc. These kinds of devices with APRS make nice little projects. The digipeater is only a means to accieve this. As you seen on the web-site we already starting to collect schematics of weather measurement devices. This is mainly the task of Remko, PE1MEW. Meanwhile I build a solid base were we can add our equipment to later. I have already an idea to start adding a serial RS232 interface, first to collect NMEA data so you can use the DIGI as stand-alone tracker device, but also to test-drive the serial interface to connect other stuff later. All this work and fuzz also now creates a little APRS hype here in the Netherland. There is not a single club bulletin that does not mention APRS. The number of stations is growing fast and everybody want to see what this "new" mode is. This could not be accieved 1 year ago, the time is apparently right now. Two weeks ago somebody sold very cheap GPS receivers from a failed taxi project. Now you can imagin the impact. We will definately see more mobile stations in the near future with these GPSses, a TinyTrak and a mobile tranciever.

You see, you need motivation. If people ask you code just out of curiosity and not because they have a special interest in it then don't expect anything in return. If people want to stare at my code to see how it works, well go ahead, nothing lost.

On the other hand, I don't find too much competent programmers in the HAM world. When you look at the software that has been build over the years then you keep seeing the same names over and over again. So it is hard to have some real cooperative development. I don't have co-developers for my digi, but publishing the code does no harm for me either, I've nothing to looze. Maybe some day a competent TCP/IP programmer comes along and adds the option of an IGATE to the source [yes, this is a hint...].

- > IMHO, it is wrong to try to browbeat authors into coughing up
- > their goodies, they all know what open source is, and the choice
- > must be theirs.

I agree completly. I would not want to force anybody into this, its only that I want my work do be GPL. Maybe it pays off, and if doesn't, nothing is lost - so why not?

Kind regards,

Henk - who now really stops on this thread although it will be tempting to answer...

--

#####  
The difference between theory and practice in practice is bigger than the difference between theory and practice in theory.

Henk de Groot | Tel: +31 53 4505400 Ext: 5400  
<Henk.de.Groot@emn.ericsson.se> | Ericsson Business Mobile Networks

---

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---

## 950. [aprssig] \$GPWPL question

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Tue, 20 Jun 2000 08:06:27 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91977-2000.06.20-09.10.34--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 07:43 AM 6/20/00 -0400, bob blasted the following out into the ether:  
><snip>  
>\$GPWPL,4044.00,N,07305.00,W,G3ZFJ\*7E

Having never had one of those new-fangled Kenwood rigs, I've never seen the result of inputting a WPL sentence to my GPS.

Do they show up with a call sign next to them? Or a label? Or nothing?

Thanks,  
Earl

Earl Needham, KD5XB      mailto:KD5XB@AMSAT.ORG  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)  
PGP Key ID 0xC3FDA66E

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

---

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---

## 951. [aprssig] Re: THD7A(G) and GPSIII+ compatibility

From: "bob" <w2g3zfj@unix.asb.com>  
Date: Tue, 20 Jun 2000 10:35:14 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91981-2000.06.20-09.34.32--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi Byron

That's interesting, I seemed to remember that there used to be an option on the GPSIII+ to select nmea/nmea but it no longer exists. In the pop up menu there is garmin, garmin/dgps, nmea, none, rctm/nmea, rctm/text, text out and that's it. I was presuming that nmea would be in/out. I have upgraded the GPS3+ several times (I wish the D7A had the same upgrade capability!) so I can't remember exactly what the options used to be.

Can anyone else see what their unit is set to?

73 de bob  
w2/g3zfj  
-----Original Message-----  
From: Byron Smith <wa6ylb@theworks.com>  
To: bob <w2g3zfj@unix.asb.com>  
Date: Tuesday, June 20, 2000 09:33  
Subject: Re: [aprssig] THD7A(G) and GPSIII+ compatibility

>First off, did you set the serial units to be NMEA/NMEA or Garmin/NMEA? it  
>matters.  
>  
>\$GPWPL,4044.00,N,07305.00,W,G3ZFJ\*7E

>>  
>>Anyone see anything wrong with this?  
>  
>Nothing wrong. I suspect the problem is the mode of interface selected in  
>the III+  
>  
>

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---

## 952. [aprssig] Re: \$GPWPL question

From: "bob" <w2g3zfj@unix.asb.com>  
Date: Tue, 20 Jun 2000 10:36:35 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91982-2000.06.20-09.35.51--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi Earl

It usually shows up as a waypoint and a point on the map with the last 6 letters of the callsign as the waypoint name.

73 de bob

-----Original Message-----

From: Earl Needham <KD5XB@AMSAT.ORG>  
To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Date: Tuesday, June 20, 2000 09:57  
Subject: [aprssig] \$GPWPL question

>At 07:43 AM 6/20/00 -0400, bob blasted the following out into the ether:  
>><snip>

>>\$GPWPL,4044.00,N,07305.00,W.G3ZFJ\*7E

>

> Having never had one of those new-fangled Kenwood rigs, I've never  
>seen the result of inputting a WPL sentence to my GPS.

>

> Do they show up with a callsign next to them? Or a label? Or  
nothing?

>

> Thanks,

> Earl

>

>

>Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>

>Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)

>PGP Key ID 0xC3FDA66E

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---

## 953. [aprssig] RE: Monitoring on Port 14502

From: "Jeff Brenton" <jeffb@espi.com>  
Date: Tue, 20 Jun 2000 08:38:03 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91983-2000.06.20-09.44.53--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

One thing to remember is that PACLEN \*only\* affects TRANSMIT. A station with PACLEN 64 or some other value (64 is the HF default on Kantronics TNCs) will still RECEIVE a 256-byte packet without a problem, but packets the station sends will be a problem.

Jeff Brenton  
President,  
Engineered Software Products, Inc  
<http://espi.com>  
Questionable web page: <http://dididahdahdidit.com>  
Northern Illinois APRS Network: <http://nian.aprs.net>

My goal in life: To be remembered as someone who always

stated what should have been obvious to everyone in the first place.

---

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---

## 954. [aprssig] remote wx station

From: "George W. Schemm" <[gschemm@landmarkins.com](mailto:gschemm@landmarkins.com)>  
Date: Tue, 20 Jun 2000 10:57:42 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: "Ed Ireland" <[w8hzf@juno.com](mailto:w8hzf@juno.com)>  
Message-ID: <[LYR842-91984-2000.06.20-10.01.54--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-91984-2000.06.20-10.01.54--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

A group of us have been working to set up a couple of remote wx stations on APRS.

We are using the Peet Brothers Ultimeter 800 for the wx station.

Everything seems to be working BUT on my Dos APRS (ver 846 or AMAX846 I've tried both) screen the current wind shows as two dots and no wind direction line is shown. In looking at the P list entry for the station the current wind speed shows as 3 dots. The wind direction appears to be correct but does not show on the map because the speed is not right.

Do we have something set wrong in the wx station or the TNC (Kantronics KPC3)? Is it because we're using the Ultimeter 800 instead of the 500 or 2000?

Any help you can give us would be greatly appreciated.

Thank you,  
George Schemm N8JAT  
[n8jat@juno.com](mailto:n8jat@juno.com)

---

## 955. [aprssig] Re: \$GPWPL question

From: [K3for@aol.com](mailto:K3for@aol.com)  
Date: Tue Jun 20 11:00:54 2000  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-91985-2000.06.20-10.05.12--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-91985-2000.06.20-10.05.12--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

>>>It usually shows up as a waypoint and a point on the map with the last 6 letters of the callsign as the waypoint name.

which causes:  
KF4PVN-11 to make waypoint "PVN-11"  
K3FOR-7 to make waypoint "3FOR-7"  
AA3RR-9 to make waypoint "A3RR-9"

Unfortunately, the SSID makes a mess of thinks. However, getting GARMIN/NMEA to change their spec to "first six digits or first occurrence of (-)" vice last 6 characters is not likely.

I leave it off, mostly.

Skip/K3FOR  
Annapolis

---

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---

## 956. [aprssig] Re: THD7A(G) and GPSIII+ compatability

From: Tim Baggett <[aa5df@yahoo.com](mailto:aa5df@yahoo.com)>  
Date: Tue, 20 Jun 2000 08:06:06 -0700 (PDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-91986-2000.06.20-10.10.21--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-91986-2000.06.20-10.10.21--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

I was able to input WPL strings into my III+ using a program I wrote awhile back. I had the III+ set to NMEA mode and it happily accepted NMEA input as it pumped out NMEA.

```
> >$GPWPL,4044.00,N,07305.00,W,G3ZFJ*7E
> >>
> >>Anyone see anything wrong with this?
```

I believe you are missing a ',' where you have a '.'. I think there should be a comma between the 'W' west field, and the waypoint label field 'G3ZFJ'. Give this a shot:

\$GPWPL,4044.00,N,07305.00,W,G3ZFJ\*7E

I am not looking at the spec though (heck, go search the TAPR APRS archives for "WPL" and find out for sure yourself - thats EXACTLY where I learned to input WPL strings into my III+ a few months ago. There's tens of emails in the archives, several with detailed info on the format of GPWPL! read 'em! Use the service!)

Regards,  
Tim

---

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---

## 957. [aprssig] Re: \$GPWPL question

From: Tim Baggett <[aa5df@yahoo.com](mailto:aa5df@yahoo.com)>  
Date: Tue, 20 Jun 2000 08:11:37 -0700 (PDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-91987-2000.06.20-10.15.18--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-91987-2000.06.20-10.15.18--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

?

In my experience, the FIRST 6 letters of the callsign (GPWPL waypoing name field) shows up on the III+ as the waypoint name. In my case 'BALLOON' was always displayed as 'BALL00'

Are we confusing the behavior of the various APRS programs/hardware, and how the III+ actually interprets GPWPL strings?

73,  
Tim

--- K3for@aol.com wrote:  
> >>>It usually shows up as a waypoint and a point on the map with the last 6  
> letters of the callsign as the waypoint name.  
>  
> which causes:  
> KF4PVN-11 to make waypoint "PVN-11"  
> K3FOR-7 to make waypoint "3FOR-7"  
> AA3RR-9 to make waypoint "A3RR-9"

---

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---

## 958. [aprssig] Re: Tall Ships

From: "Charles H. Rahe, II" <[crahe@lancnews.infi.net](mailto:crahe@lancnews.infi.net)>  
Date: Tue, 20 Jun 2000 11:15:21 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-91988-2000.06.20-10.18.57--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-91988-2000.06.20-10.18.57--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

For what it's worth I plan to install a new D700 in the boat today or tomorrow and hopefully will be chasing some of the tall ships Thurs. and Fri. as they come up the Chesapeake on their way to Baltimore. Anyone interested can track me as AI3L-8. Will also monitor 146.52 for voice contacts.  
[Attachment: [crahe.vcf](#); text/x-vcard; 181 bytes]



## 959. [aprssig] Re: THD7A(G) and GPSIII+ compatability

From: Ray Vaughan <ray@rayvaughan.com>  
Date: Tue, 20 Jun 2000 11:26:32 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91990-2000.06.20-10.30.32--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 10:35 AM 6/20/00 -0400, you wrote:

>Hi Byron

>

>That's interesting, I seemed to remember that there used to be an option on  
>the GPSIII+ to select nmea/nmea but it no longer exists. In the pop up menu  
>there is garmin, garmin/dgps, nmea, none, rtcm/nmea,rtcm/text, text out and  
>thats its. I was presuming that nmea would be in/out. I have upgraded the  
>GPS3+ several times (I wish the D7A had the same upgrade capability!) so I  
>can't remember exactly what the options used to be.

If their Street Pilot is any indication, it appears that Garmin considers NMEA only to be a passing fad.

It doesn't accept inbound NMEA for way points, but isn't this handy, they accept their own protocol for this. I guess their market share and ego have determined that they, not NMEA set the standards now. This is the only reason I don't own a Street Pilot today. Very cool unit, but someone has to teach them what 'standards' are all about.

---

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## 960. [aprssig] APRS DECODER version 2.0 now available

From: Ian Wade <Ian.Wade@care4free.net>  
Date: Tue, 20 Jun 2000 16:36:21 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-91992-2000.06.20-10.40.24--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

=====  
ANNOUNCING <APRSdec>TM Version 2.0  
THE FULL APRS DECODER PROGRAM  
by Ian Wade, G3NRW  
16 June 2000  
=====

<APRSdec> version 2.0 is now available. <APRSdec> parses APRS packets in TNC/IGate output format or UI-View log format, producing a full decode of every data element in each packet.

<APRSdec> is a particularly useful tool for:

- o APRS software development and testing.
- o PIC development and testing.
- o Network fault-finding and diagnostics.
- o Learning about the APRS protocol.
- o Checking packet formats.

<APRSdec> version 2.0 is a significant enhancement over earlier versions. It has much improved error checking, and for the first time is provided as a Perl 4 source, allowing it to run on most platforms including DOS, Windows and Linux/Unix.

<APRSdec> is made available under GNU General Public License.

<APRSdec> is a trademark owned by Ian Wade, G3NRW.

=====  
<APRSdec> FEATURES  
=====

- o Runs under native DOS, Win 95/98 and Linux/Unix. (It will almost certainly run under Windows NT and Windows 2000 as well, but this has not been tested).
- o Accepts raw input in TNC/IGate output format (TNC\_header:data).

- o Accepts raw input in UI-View 2-line log format; it is no longer necessary to edit log files before using <APRSdec>. In addition, as well as decoding APRS packets, <APRSdec> also decodes the 15-digit UI-View timestamp.
- o Performs rigorous format checking, with detailed error reporting.
- o Understands position ambiguity, reporting the bounding box in which the station is located.
- o Compares lat/long position against a prefix/country database -- if the station's position appears to be outside the country, <APRSdec> reports a possible anomaly.
- o Reports data values in imperial, nautical and metric units.
- o Fully decodes Mic-E and compressed position formats.
- o Recognizes data from Kenwood TH-D7 and DM-700 radios, and changes the incorrect DM-700 APRS Data Type Identifier to "Current Mic-E Data".
- o Provides detailed weather station reports, including the calculation of windchill and dew point.
- o Decodes storm data.
- o Decodes bearing and range data.
- o Decodes DX Cluster reports, showing the data as it will appear on TH-D7 and DM-700 screens.

=====

SOME EXAMPLES OF <APRSdec> OUTPUT

=====

A simple lat/long report:

```
-----
Record #170
KE4SZT>APRS,W4NHV-9,WIDE*,WIDE/2:@270700z3408.76N/07924.60W- John in Marion, SC-793-
APRS Data Type= Posit w/ time. With APRS
Day= 27 Time= 07 hours 00 mins UTC
Lat= 34 deg 08.76 min N Long= 79 deg 24.60 min W
Icon= House QTH VHF Overlay= (none)
-----
```

A raw Mic-E report. <APRSdec> recognizes this comes from a Kenwood TM-D700 radio and automatically changes the APRS Data Type to "Current Mic-E data":

```
-----
Record #8051
KC7EQL>VE7VAN-3*>WIDE3-1>T8PWPW:'37jllE-/]"55}Mark at Home awaits Sunsat
APRS Data Type= Current Mic-E data
Radio= Kenwood TM-D700
Message Type= /M2/In Service
Lat= 48 deg 07.07 min N Long= 123 deg 27.65 min W
Icon= House QTH VHF Overlay= (none)
Course= 173 deg Speed= 4 knots (4.6 mph 7.4 kph 2.1 m/s)
Altitude= 397 feet (121 meters)
-----
```

A compressed lat/long position, within an Object report:

```
-----
Record #1763
N9IDH>APRK11,AE9A-10*,WIDE3-2:;A016 _111826z\%H+!JvA!Sk{!R=05280/437.051/13Khz/APRStk
APRS Data Type= Object
Object Name= 'A016 ' Object Status= Killed
Day= 11 Time= 18 hours 26 mins UTC
Lat= 81 deg 14.20 min N Long= 14 deg 04.30 min W
GPS Fix= Old (last) NMEA Source= Other Compression Origin= Compressed
Course= 296 deg Speed= 1018 knots (1171.5 mph 1885.3 kph 523.7 m/s)
Icon= Satellite/PAC Overlay= (none)
-----
```

A lat/long report with position ambiguity. The station may be located anywhere inside the bounding box:

-----  
Record #121

W9ZGU>APR846,WA4WHD-3\*,WIDE/V:=2559. N/08010. W-PHG6560/Carl's Castle!

APRS Data Type= Posit w/o time. With APRS

Ambiguous position. Opposite corners of bounding box:

NW Corner: Lat= 25 deg 59.99 min N Long= 80 deg 10.99 min W

SE Corner: Lat= 25 deg 59.00 min N Long= 80 deg 10.00 min W

Icon= House QTH VHF Overlay= (none)

Power= 36 watts Height above average terrain= 320 feet (97.5 meters)

Gain= 6 dB Range Circle= 41.4 miles (66.6 km) Directivity= Omni-directional  
-----

A Maidenhead Locator report. The station may be located anywhere inside the bounding box:

-----  
Record #459

CT1DBH-1>ID:[IM58IS]

APRS Data Type= Maidenhead Grid Square

Maidenhead locator bounding box:

NW Corner: Lat= 38 deg 47.50 min N Long= 9 deg 20 min W

SE Corner: Lat= 38 deg 45.00 min N Long= 9 deg 15 min W

\*NOTE: This Maidenhead format with square brackets is obsolete.  
-----

A UI-View report, including the decoded UI-View timestamp.  
(This report shows APRS Working Group Chairman John Ackermann, N8UR, jogging towards G3NRW's QTH at over 72mph -- he was on a train at the time! <APRSdec> also recognizes that John is outside the contiguous 48 states, so it questions the reported location):

-----  
Record #622

N8UR-7\*>RELAY>WIDE>WIDE>WIDE2-2>U1UVXX (UI):`v9f">[/>"58}

UI-View Timestamp= 27 May 2000 12 hrs 58 mins 32 secs (PC clocktime)

APRS Data Type= Current Mic-E data

Radio= Kenwood TH-D7

Message Type= /M2/In Service

Lat= 51 deg 56.88 min N Long= 0 deg 29.74 min W

\*QUESTION: Is this lat/long position reasonable?

It seems a long way from home for this callsign.

Icon= Jogger Overlay= (none)

Course= 1 deg Speed= 63 knots (72.5 mph 116.7 kph 32.4 m/s)

Altitude= 407 feet (124 meters)  
-----

A full WX station report, with computed windchill and dewpoint:

-----  
Record #5034

KF0ZH\*>APR819,GATE,WIDE2-2:@111955z4447.06N/09329.48W\_125/008g009t079r000p003...h41b10190dU2k

APRS Data Type= Posit w/ time. With APRS

Day= 11 Time= 19 hours 55 mins UTC

Lat= 44 deg 47.06 min N Long= 93 deg 29.48 min W

Icon= WX station Overlay= (none)

Wind Direction= 125 deg Speed= 008 knots (9.2 mph 14.8 kph 4.1 m/s)

Gust Speed= 9 mph (14.5 kph 4.0 m/s 7.8 knots)

Temp= 79 degF (26.1 degC) Windchill= 76.5 degF (24.7 degC)

Rain: Last hour= 0 in (0.0 mm) Last 24 hrs= 0.03 in (0.8 mm)

Since midnight= (Indeterminate)

Humidity= 41 percent Dew Point= 53.2 degF (11.8 degC)

Barometric Pressure= 1019 mbar/hP  
-----

A DX Cluster report, showing how the data will appear on Kenwood radio displays:

-----  
Record #3852

NA4V-3>RESORC,AB4KN-2\*,WIDE3-2:DX de NA4V-3 >F029@1509 F020@1503

SATS

DX Cluster Information:

| TH-D7 Screen 1                                                      | TH-D7 Screen 2                                       | TM-D700                                                            |
|---------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|
| +-----+<br>  Dx:F020@1503  <br>  F029@1509  <br>  SATS  <br>+-----+ | +-----+<br>  Dx:F020@1503  <br>   <br>   <br>+-----+ | +-----+<br>  1:F020@1503 F029@1509 SATS  <br>   <br>   <br>+-----+ |

=====  
TO OBTAIN <APRSdec>  
=====

<APRSdec> may be downloaded from <http://www.netro.co.uk/aprs.htm>. There are two distribution files: "aprsdec.zip" for DOS/Windows and "aprsdecu.tar" for Unix/Linux. The DOS/Windows distribution includes a suitable Perl compiler.

73  
Ian, G3NRW  
Technical Editor, APRS Protocol Specification

--  
+-----+  
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |  
| email: g3nrw@arrl.net |  
| |  
| APRS PROTOCOL SPEC: <http://www.tapr.org/tapr/html/Faprswg.html> |  
| <APRSdec> APRS DECODER: <http://www.netro.co.uk/aprs.htm> |  
+-----+

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---

## 961. [aprssig] Re: AFilter 1.18

From: "Dick Stanich" <[dstanic@c2i2.com](mailto:dstanic@c2i2.com)>  
Date: Tue, 20 Jun 2000 10:45:10  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-91994-2000.06.20-10.48.47--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

AFILTER118.ZIP is also available at my site.

Site address: <http://www.c2i2.com/~yumaprs/>

Dick, KB7ZVA  
Yuma Igate  
Southwest Arizona APRS Group

---  
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---

## 962. [aprssig] www.miaprs.net and michigan.aprs.net

From: "Mike James Wolthuis" <[wolthui3@pilot.msu.edu](mailto:wolthui3@pilot.msu.edu)>  
Date: Tue, 20 Jun 2000 11:48:01 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-91995-2000.06.20-10.51.53--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Please be advised that the West Michigan IGATE, michigan.aprs.net and the webserver [www.miaprs.net](http://www.miaprs.net) are moving to new IP addresses. If you use them for internet feeds the new IPs will be:

63.106.164.227

This will be effective as of 8:00AM EST on June 21

Also, Greg, can you please make the changes to [second.aprs.net](http://second.aprs.net) to repoint to the new IP address and I will contact Steve off the list if he doesn't read this here.

Thanks for enjoying MI APRS!

Mike Wolthuis

KB8ZGL

---

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---

### 963. [aprssig] Trying to locate, KE7XO

From: "Dick Stanich" <[dstanic@c2i2.com](mailto:dstanic@c2i2.com)>  
Date: Tue, 20 Jun 2000 10:53:13  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-92000-2000.06.20-10.56.50--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-92000-2000.06.20-10.56.50--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

What I need is his recent email address. His name is Richard Kulaga and runs an Igate in the Las Vegas area. If you can help...

<mailto:dstanic@c2i2.com>

Thanks, Dick, KB7ZVA

---

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---

### 964. [aprssig] DIGI\_NED rule syntax

From: "Henk de Groot (EMN)" <[Henk.de.Groot@emn.ericsson.se](mailto:Henk.de.Groot@emn.ericsson.se)>  
Date: Tue, 20 Jun 2000 16:54:21 +0200  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-92001-2000.06.20-10.58.27--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-92001-2000.06.20-10.58.27--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Hello all,

There are now so many things you can do with the digi-ned digipeating rules and still there are cases that still can't be done. Now I can add yet another parameter to the rules, but in general the rule syntax, which idea I took from stealth, does not seem to be simple and straight forward anymore.

I don't know how many of you actually looked at it, but I wonder if anybody has a better solution to define how to digipeat a certain frame. So I'm looking for new ideas. How to make better descriptions of rules for the digipeating process which are easier to understand and handle by the user.

I will of course try to figure out something new myself, but if you have brilliant ideas about it I would not let it go to waste!

Of course as always other enhancements and ideas are more than welcome. I'm still thinking about Bob's proposal to have short digi aliases in one call, but don't really know how to proceed with that.

Also still thinking about syntax checking on APRS packets, although I don't want too much APRS specific behaviour in the digi-code, so this should also be some how programmable.

Kind regards,

Henk.

--

#####  
The difference between theory and practice in practice is bigger than the difference between theory and practice in theory.

Henk de Groot | Tel: +31 53 4505400 Ext: 5400  
<[Henk.de.Groot@emn.ericsson.se](mailto:Henk.de.Groot@emn.ericsson.se)> | Ericsson Business Mobile Networks

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---

### 965. [aprssig] Re: remote wx station

From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
Date: Tue, 20 Jun 2000 12:24:10 -0400 (EDT)

To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssid@lists.tapr.org>,  
Ed Ireland <w8hzf@juno.com>  
Message-ID: <LYR842-92009-2000.06.20-11.27.50--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Tue, 20 Jun 2000, George W. Schemm wrote:

> Everything seems to be working BUT on my Dos APRS (ver 846 or AMAX846  
I've tried both) screen the current wind shows as two dots and no wind  
direction line is shown. In looking at the P list entry for the station  
the current wind speed shows as 3 dots. The wind direction appears to be  
correct but does not show on the map because the speed is not right.

Hummh. Depending on what you are transmitting. As a remote WX station,  
it only transmits a packet every 5 minutes. As such, I think, it only  
transmits the PEAK wind during that period. APRSdos should be showing  
that in the GUST field. But it has no average wind to display.

Is this what you see?

Bob

---

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---

## 966. [aprssid] Re: APRS DECODER / ACTIVITY LOGGER

From: BordingK@aol.com  
Date: Tue, 20 Jun 2000 12:24:55 EDT  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-92010-2000.06.20-11.28.51--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Trying to help local APRSers set proper paths and packet rates. Is there any  
software that keeps track of how many packets a particular call sign puts out  
per hour? It would be best if differentiated between SSIDs also.

Also, I've noticed that WinAPRS seems to put out more packets per hour than  
the Settings/Position Reporting Rate settings would indicate.

Thanks in advance

DE W5KNB  
Ken

---

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---

## 967. [aprssid] Re: \$GPWPL question

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Tue, 20 Jun 2000 12:27:48 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssid@lists.tapr.org>  
Message-ID: <LYR842-92011-2000.06.20-11.31.36--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Tue, 20 Jun 2000, Tim Baggett wrote:

> In my experience, the FIRST 6 letters of the callsign (GPWPL waypoing name  
> field) shows up on the III+ as the waypoint name. In my case 'BALLOON' was  
> always displayed as 'BALLOO'  
>  
> Are we confusing the behavior of the various APRS programs/hardware, and how  
> the III+ actually interprets GPWPL strings?

The only way to do it is with the RIGHT most N characters, since that is  
where the detail is. If we accepted the LEFT most, then my GPS would see  
all of my SSID's as the SAME. Thus the WAYPOINT would be jumping all over  
the map depending on which of my 6 stations was the last packet. My  
house, car, office, HT, digi, or whatever... AND you wouldnt know which  
one it was!

So Kenwoods and APRSdos truncate and retain the RIGHTMOST... It just wont  
work the other way...

---

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## 968. [aprssig] Re: remote wx station

From: Steve Dimse <k4hg@tapr.org>  
Date: Tue, 20 Jun 2000 12:34:06 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "Ed Ireland" <w8hzf@juno.com>  
Message-ID: <LYR842-92012-2000.06.20-11.38.02--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 6/20/00 12:24 PM Bob Bruninga (bruninga@nadn.navy.mil) wrote:

>Hummh. Depending on what you are transmitting. As a remote WX station,  
>it only transmits a packet every 5 minutes. As such, I think, it only  
>transmits the PEAK wind during that period. APRSdos should be showing  
>that in the GUST field. But it has no average wind to display.  
>

But it isn't really the gust, it is the wind speed at the moment of transmission. Not peak, not average, perhaps "random"? Mac/WinAPRS and my software displays this in place of the average, it seems closer in definition, and certainly if it is the only wind data from the station ought to be drawn on the display.

Steve K4HG

---

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---

## 969. [aprssig] Re: DIGI\_NED rule syntax

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Tue, 20 Jun 2000 12:39:26 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92014-2000.06.20-11.44.20--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

We could take another look at "preemptive" digipeating where the DIGI list is not viewed as sequential, but as a list of all digis that should repeat the packet only once. This was one of my earliest ideas back in 1992, but I abandoned it in favor of WIDEN-N. I wonder if it has any application for the "local" user. And will it work in the presence of "mixed firmware" digis? Might be worth studying again in the new context. I just haven't thought much about it in a long time...

bob

On Tue, 20 Jun 2000,  
Henk de Groot (EMN) wrote:

> Hello all,  
>  
> There are now so many things you can do with the digi-ned digipeating  
> rules and still there are cases that still can't be done. Now I can  
> add yet another parameter to the rules, but in general the rule syntax,  
> which idea I took from stealth, does not seem to be simple and  
> straight forward anymore.  
>  
> I don't know how many of you actually looked at it, but I wonder if  
> anybody has a better solution to define how to digipeat a certain  
> frame. So I'm looking for new ideas. How to make better descriptions  
> of rules for the digipeating process which are easier to understand  
> and handle by the user.  
>  
> I will of course try to figure out something new myself, but if you  
> have brilliant ideas about it I would not let it go to waste!  
>  
> Of course as always other enhancements and ideas are more than  
> welcome. I'm still thinking about Bob's proposal to have short digi  
> aliases in one call, but don't really know how to proceed with that.  
>  
> Also still thinking about syntax checking on APRS packets, although  
> I don't want too much APRS specific behaviour in the digi-code, so  
> this should also be some how programmable.  
>  
> Kind regards,  
>

```

> Henk.
>
> --
> #####
> The difference between theory and practice in practice is bigger than
> the difference between theory and practice in theory.
>
> Henk de Groot | Tel: +31 53 4505400 Ext: 5400
> <Henk.de.Groot@emn.ericsson.se> | Ericsson Business Mobile Networks
>
>
> ---
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>
>

```

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org  
 US mail address: 115 old Farm Ct, Glen Burnie, MD 21060  
 See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>  
 See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>  
 See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

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## 970. [aprssi] Re: \$GPWPL question

From: Tim Baggett <aa5df@yahoo.com>  
 Date: Tue, 20 Jun 2000 09:42:24 -0700 (PDT)  
 To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
 Cc: TAPR APRS Special Interest Group <aprssi@lists.tapr.org>  
 Message-ID: <LYR842-92015-2000.06.20-11.47.22--lyris.aprssi#tapr.org@lists.tapr.org>  
 Rendered body type: text/plain

--- Bob Bruninga <bruninga@nadn.navy.mil> wrote:

```

> So Kenwoods and APRSdos truncate and retain the RIGHTMOST... It just wont
> work the other way...

```

Perhaps regarding APRS software and hardware it won't work the other way, but if you send a III+ a GPWPL string with a waypoint name of more than six chars I'm certain you will find that you see the LEFTMOST 6 chars on the display.

My point is that it just doesn't work the other way (in this case 'it' being the Garmin III+) unless you force it to by munging the waypoint name when you put it in the name field.

73,  
 Tim

---

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<http://im.yahoo.com/>

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## 971. [aprssi] Re: Tall Ships

From: "Clayton H. Owen" <aa3jy@erols.com>  
 Date: Tue, 20 Jun 2000 12:43:52 -0400  
 To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
 Cc: TAPR APRS Special Interest Group <aprssi@lists.tapr.org>  
 Message-ID: <LYR842-92016-2000.06.20-11.47.43--lyris.aprssi#tapr.org@lists.tapr.org>  
 Rendered body type: text/plain

Charles H. Rahe, II wrote:

```

>
> For what it's worth I plan to install a new D700 in the boat today or tomorrow
> and hopefully will be chasing some of the tall ships Thurs. and Fri. as they
> come up the Chesapeake on their way to Baltimore. Anyone interested can track me
> as AI3L-8. Will also monitor 146.52 for voice contacts.

```



>  
> -----  
I'll be in the Inner Harbour and the Fells Point area...

Clay AA3JY-5  
S/V 'Captiva'

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## 972. [aprssig] Re: APRS DECODER / ACTIVITY LOGGER

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Tue, 20 Jun 2000 12:42:31 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92018-2000.06.20-11.48.23--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Tue, 20 Jun 2000 BordingK@aol.com wrote:

> Trying to help local APRSers set proper paths and packet rates. Is there any  
> software that keeps track of how many packets a particular call sign puts out  
> per hour? It would be best if it differentiated between SSIDs also.

Sure, in APRSdos, just hit the H key for the HEARD display. It shows the  
number of packets per hour per station for the last 23 hours.

---  
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## 973. [aprssig] Re: \$GPWPL question

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Tue, 20 Jun 2000 12:45:39 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92019-2000.06.20-11.50.11--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The below says why APRSdos and Kenwoods output waypoints RIGHT justified.  
Now that you can change the number of digits in the D7(G), be careful. If  
you output any more digits than your GPS can accept, then the GPS will  
LEFT JUSTIFY what it gets and you will get JUMPING WAYPOINTS... for all  
callsigns with multiple SSID's... And you wont know which one is which.

On Tue, 20 Jun 2000, Bob Bruninga wrote:

> On Tue, 20 Jun 2000, Tim Baggett wrote:  
>  
> > In my experience, the FIRST 6 letters of the callsign (GPWPL waypoing name  
> > field) shows up on the III+ as the waypoint name. In my case 'BALLOON' was  
> > always displayed as 'BALLOO'  
> >  
> > Are we confusing the behavior of the various APRS programs/hardware, and how  
> > the III+ actually interprets GPWPL strings?  
>  
> The only way to do it is with the RIGHT most N characters, since that is  
> where the detail is. If we accepted the LEFT most, then my GPS would see  
> all of my SSID's as the SAME. Thus the WAYPOINT would be jumping all over  
> the map depending on which of my 6 stations was the last packet. My  
> house, car, office, HT, digi, or whatever... AND you wouldnt know which  
> one it was!  
>  
> So Kenwoods and APRSdos truncate and retain the RIGHTMOST... It just wont  
> work the other way...  
>  
>  
>  
> ---  
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>  
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org  
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060

See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>  
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>  
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

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## 974. [aprssig] Re: remote wx station

From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
Date: Tue, 20 Jun 2000 12:49:48 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>, Ed Ireland <[w8hzf@juno.com](mailto:w8hzf@juno.com)>  
Message-ID: <[LYR842-92020-2000.06.20-11.54.44--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-92020-2000.06.20-11.54.44--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

On Tue, 20 Jun 2000, Steve Dimse wrote:

> But it isn't really the gust, it is the wind speed at the moment of  
> transmission. Not peak, not average, perhaps "random"? Mac/WinAPRS and my  
> software displays this in place of the average, it seems closer in  
> definition, and certainly if it is the only wind data from the station  
> ought to be drawn on the display.

Well, I think it depends. If it is a REMOTE WX station sending out constant strings to a GPS configured TNC that is then only sending out a periodic snapshot, then what you say is correct. But if it is a Peet sending out a single once-every-5-minute WX summary packet in PACKET mode and this is going into a TNC in CONVERSE mode, then I think it is a summary of WX in the last 5 minutes and I thought it was a highest recorded wind in that interval.

So it depends on what is their configuration...

de WB4APR, Bob

---

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---

## 975. [aprssig] Re: remote wx station

From: Steve Dimse <[k4hg@tapr.org](mailto:k4hg@tapr.org)>  
Date: Tue, 20 Jun 2000 13:05:20 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>, "Ed Ireland" <[w8hzf@juno.com](mailto:w8hzf@juno.com)>  
Message-ID: <[LYR842-92021-2000.06.20-12.10.34--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-92021-2000.06.20-12.10.34--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

On 6/20/00 12:49 PM Bob Bruninga ([bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)) wrote:

>> But it isn't really the gust, it is the wind speed at the moment of  
>> transmission. Not peak, not average, perhaps "random"? Mac/WinAPRS and my  
>> software displays this in place of the average, it seems closer in  
>> definition, and certainly if it is the only wind data from the station  
>> ought to be drawn on the display.

>

>Well, I think it depends. If it is a REMOTE WX station sending out  
>constant strings to a GPS configured TNC that is then only sending out a  
>periodic snapshot, then what you say is correct. But if it is a Peet  
>sending out a single once-every-5-minute WX summary packet in PACKET mode  
>and this is going into a TNC in CONVERSE mode, then I think it is a  
>summary of WX in the last 5 minutes and I thought it was a highest  
>recorded wind in that interval.

>

>So it depends on what is their configuration...

>

I had already looked, they are using data logging mode.

Steve K4HG

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## 976. [aprssig] Re: APRS DECODER / ACTIVITY LOGGER

From: "Thomas M. Schaefer" <toms@inconnect.com>  
Date: Tue, 20 Jun 2000 11:53:02 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92028-2000.06.20-12.55.52--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

One way is to use the Search utility I wrote. Presuming their packets are sent to an igate, you can look for just a single call in a time interval. You can also look for all SSID's of a base call. This will display every packet sent to FINDU in the interval.

Try: <http://www.xmission.com/~uarc/search.htm>

Tom NY4I  
----- Original Message -----  
From: <BordingK@aol.com>  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Sent: Tuesday, June 20, 2000 10:24 AM  
Subject: [aprssig] Re: APRS DECODER / ACTIVITY LOGGER

> Trying to help local APRSers set proper paths and packet rates. Is there  
> any  
> software that keeps track of how many packets a particular call sign puts  
> out  
> per hour? It would be best if it differentiated between SSIDs also.  
>  
> Also, I've noticed that WinAPRS seems to put out more packets per hour  
> than  
> the Settings/Position Reporting Rate settings would indicate.  
>  
> Thanks in advance  
>  
> DE W5KNB  
> Ken  
>  
> ---  
> You are currently subscribed to aprssig as: toms@inconnect.com  
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org  
>

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## 977. [aprssig] Re: DIGI\_NED 0.1.2

From: Jeff King <jeff@aerodata.net>  
Date: Tue, 20 Jun 2000 14:09:38 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92030-2000.06.20-13.11.03--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Steve Dimse wrote:

> >>Case 1)  
> >>Garbled messages on an I GATE. This went into a massive debugging  
> >>session and nailed down the problem in APRSD, which then could  
> >>be immediately fixed.  
> >>  
> This is a terrible example to prove a point about open source. The  
> evidence pointed to aprsd for weeks, but no one did anything until the  
> original author reluctantly began working on the program again. No one  
> else did anything with the source code, they just kept whining on the SIG  
> until Dale couldn't take it any longer. Not exactly a case I would want  
> to put forward for open source.

Yes, bad example yet you have to understand there have been years of intellectual damage to APRS because of the restrictive licensing methods used, as you have commented on in the past. You couldn't even release source code until just a year ago, without threats of lawsuits, at least according to some here on the SIG.

This kind of damage takes time to repair and attract back the people that could have contributed. Give it time, I don't think you will be let down.

> >Conclusion - open source is a great idea, if your only involvement in

> >writing software is as a hobby.

I think Roger said this. My company as part of its products does software development. Not a hobby. Yet we release the source code to the customer base. Not "open source" according to the GPL folks, but we like to think it does the same thing, and it does. We have had customers modify and update our base code and contribute it back. We then offer that as free upgrades to our other customers. Who better to fix/update software than the customer? Yes, we have a licensing restriction in the software..... we don't want them sharing it on the internet as we have competition, yet we have no problem with it being shared within the customer base.... the people that use it.

Now, if you have the same code base across your hobby and commercial interests, that might be a different story! (in my case, it was Video signal analysis program for Video duplicators which I originally wrote in VBDOS 1.0... no hobby interest unless you wanted to crack MacroVision which of course I wouldn't share with the hobbyists!.)

Back to Steve

>work-arounds reflecting the primitive state of the Java VM 4 years ago.  
>Since there was a prohibition on the release of source code in those  
>days, I never thought it would see the light of day and made no attempt  
>to document it well.

OK, I just notice that comment. So like I said above, it will take some time to attract the types that will help. NOS didn't happen overnight, even though the source was always available. Its been just a year since this cloud was removed from APRS and already we have positive results.

> So, to prepare the code for release as something I would want my name on  
> would take me a few months worth of work, something I'm not going to do.

What's good for the goose is not good for the gander? You encourage me to release my PIC fluxgate compass code, even though it was incomplete. On the basis of "something is better than nothing" I did this. I believe you even e-mailed me thanking me for doing this.

Believe me, back when I was involved with the NOS-BBS, some of the code contributions were best described as spaghetti code. Yet no-one complained, it was all welcome. The code that was useful was cleaned up and incorporated into the base release. Remember, this \*is\* a hobby and your not going to get nailed at the weekly code review for missing some magic numbers. The annually retentive types don't last long.... yes someone may clean your code up, but if your ego can stand this, release release release!

> Over the last year, 4 people have written me to request the source code,  
> which I sent them. Two were never heard from again, the other two seemed  
> to make a genuine attempt at it, but came to me frequently with  
> questions. Out of guilt for writing such bad code, I spent dozens of  
> hours looking at it to answer their questions. Despite all that effort,  
> not a single line of new code was ever sent back to me, or released  
> elsewhere to the best of my knowledge. So, I wasted a lot of time for no  
> return. And please, don't write me now asking for the code...the sad fact  
> is, if you have the skills to maintain the javaAPRS code, you could write  
> it yourself, and do it better, in less time.

Now, this is a bad example of a open source project. I've seen you make these offers before, you put conditions on everybody before they can even see the code. Certainly your right, and I am not faulting you at all for this. But you can't take your example and then equate it to "open source". Its just not the same thing. Just stick the source code out there, with no restrictions for downloading (although you may have some in your copyright) and see what happens. I think you might have better luck. If you get one person out of a hundred that contributes, you are lucky. 4 people was too small of a sample to base your conclusions on. Also helps to start a mailing list devoted to the subject so the contributors can share their ideas with each other.

> Open source is this year's fad...

The name, or the concept? Concept has been around as long as I have been in computers, dating to the Cosmac Elf, KIM1 and my "big board" CP/M machine, most certainly longer than that I am sure.

> IMHO, it is wrong  
> to try to browbeat authors into coughing up their goodies, they all know

> what open source is, and the choice must be theirs.

And you expected no-one to question this allegation? Who exactly is trying to browbeat the authors into doing this? I've seen suggestions where if the authors had released the source, it would have made their job easier, but "IMHO" this is a long way from "browbeating". No one is trying to force anyone to do anything from what I have read.

Steve, just give things a chance.

73

Jeff

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## 978. [aprssig] Re: DIGI\_NED 0.1.2

From: Roger Barker <roger@peaksys.co.uk>  
Date: Tue, 20 Jun 2000 19:28:45 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92034-2000.06.20-13.33.04--lyris.aprssig#tapr.org@lists.tapr.org>  
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In article <LYR1643-91961-2000.06.20-07.01.46--ROGER#PEAKSYS.CO.UK@lists.tapr.org>, Henk de Groot (EMN) <Henk.de.Groot@emn.ericsson.se> writes  
[snip]

I didn't want to get involved in an ongoing discussion over open-source, because you'll never convince me that it's in any way relevant to the world in which I live/work. (If you wish, you can put that down to cynicism resulting from 20 years of developing software in highly competitive environments.) But -

>Now you suffer from closed software yourself too. You depend  
>on AGWPE and I know how George works.

Neither I nor any of my programs have a dependency on AGWPE.

UI-View supports -  
Its own internal terminal mode and KISS mode drivers. (Not open-source.)  
BPQ host mode. (Not open-source.)  
AGWPE host mode. (Not open-source.)

WinPack also supports -  
Flexnet. (Not open-source.)  
TFPCX. (Originally not open-source.)

> Now AGWPE is feature  
>rich, but it is not brilliant in stability - at least not  
>used to when I last looked at it over 1 year ago. You depend  
>on it but nothing you can do about it. It is inevitable that  
>you must have felt helpless about it.

Not being dependent on it, I don't in any way feel helpless!

> Still AGWPE is sending  
>out UI frames with all combinations of the reserved bits in  
>the UI header you can think of, where the AX.25 spec says they  
>should just be '1'. This is very simple to solve, but you are  
>totally and completely dependent on George who doesn't care  
>less about these bits.  
[snip]

Presumably you mean bits 5 and 6 of the SSID byte of the AX25 address fields? In that case, frames originating from UI-View in KISS, BPQ and AGWPE modes should have those bits set, because the program builds its own KISS frames, and uses the "send raw" functions in both BPQ and AGWPE.

>It still could be that my assessment is wrong and that this is  
>caused by UIview. Without source I have no means to verify anything  
>so it is educated-guessing that APWPE does this - knowing the  
>history. I have not studied how the AGWPE<->UIview interface works  
>(yes, I know the AGWPE-API is public but I have no interest in it).

You don't need the source code to find out where those bits should be set, all you need to do is ask. If you think you are seeing problems with those bits not being correctly set, then a raw data dump would be very useful. UI-View's digi should leave the bits in the same state they are in when it receives a frame, but it's always possible that there's a bug in there. However, without any information, it's just as difficult to find a bug in closed-source code as in open-source...

To return to my "not open-source" comments above - None of the excellent AX25 host mode systems that are so popular in Europe were originally open-source. They all have one feature in common - they represent the innovation, ideas, and hard work of one person. As far as I can see, the few ham radio open-source projects that exist are in fact nothing more than something that has been developed by an individual, and then they have made the source code available. This leads to two questions:-

1. Is it really open-source \*development\*, when most of the development is in fact done before the project becomes open-source?

2. Could any of these innovative systems ever have been developed from scratch as open-source projects? Personally I doubt it. Two English sayings come to mind - "Too many cooks spoil the broth" and "A camel is a horse designed by a committee".

--

Roger Barker, G4IDE - roger@peaksys.co.uk  
For UI-View go to - <http://www.packetradio.org.uk>  
For WinPack go to - <http://www.peaksys.co.uk>

---

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## 979. [aprssig] Re: \$GPWPL question

From: Byron Smith <wa6ylb@theworks.com>  
Date: Tue, 20 Jun 2000 11:26:38 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: aprssig@tapr.org  
Message-ID: <LYR842-92035-2000.06.20-13.34.21--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Remember that you were going to "filter" out the "-" from the downloading of waypoints, so that you get more of the callsign into the GPS? Did this get fixed in aprsdos?

This would allow more the actual callsign to make into the 6 position field.

I suspect the D7A didnt filter the " - ", as its a wasted character.

---Bob B wrote: ---

The only way to do it is with the RIGHT most N characters, since that is >where the detail is.  
>So Kenwoods and APRSdos truncate and retain the RIGHTMOST... It just wont >work the other way...

---

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## 980. [aprssig] Re: Re: \$GPWPL question

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Tue, 20 Jun 2000 14:32:02 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92036-2000.06.20-13.36.32--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Tue, 20 Jun 2000, Tim Baggett wrote:

> Perhaps regarding APRS software and hardware it won't work the other way, but  
> if you send a III+ a GPWPL string with a waypoint name of more than six chars  
> I'm certain you will find that you see the LEFTMOST 6 chars on the display.

Yes, we agree there. But if users try to use it that way, then they will have dancing Waypoints as the SSID info is lost and so the waypoints will







Gee, I speak well.

Meant to say "Except for a few programs, it's..."

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## 985. [aprssig] Re: DIGI\_NED 0.1.2

From: Jeff King <[jeff@aerodata.net](mailto:jeff@aerodata.net)>  
Date: Tue, 20 Jun 2000 15:17:03 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-92047-2000.06.20-14.18.27--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Roger Barker wrote:

> I didn't want to get involved in an ongoing discussion over open-source,  
> because you'll never convince me that it's in any way relevant to the  
> world in which I live/work.

Your right to feel that way. But what if all you did was ham software and you got hit by a truck tomorrow? How would your work carry on? I'm sure that would be of little concern to you (for obvious reasons), but might concern your user base.

> To return to my "not open-source" comments above - None of the excellent  
> AX25 host mode systems that are so popular in Europe were originally  
> open-source. They all have one feature in common - they represent the  
> innovation, ideas, and hard work of one person.

Someone has a itch and they scratch it.... this defines almost every open source project. Good example is Ian Wade's APRS decoder. He had a itch, he needed to confirm the protocol in a easy convenient way. He wrote a program to do this, and release just the .exe a few months ago. Now today, I see he has now released the source. He set the ship on course, it does what he wants, and now I suspect he wouldn't mind if others adapted it to their needs.

> As far as I can see, the  
> few ham radio open-source projects that exist are in fact nothing more  
> than something that has been developed by an individual, and then they  
> have made the source code available.

Yeap, that's how most of them start. There is no committee, its just a persons personal need that starts the process. The "itch".

> This leads to two questions:-  
>

> 1. Is it really open-source \*development\*, when most of the development  
> is in fact done before the project becomes open-source?

I beg to differ here, a MINORITY of the development is done. Phil Karn KA9Q released NOS first as something called "net.exe". It was a far cry from what it evolved into. I don't remember the day that source was not available for use by the amateur community, yet I bet there was a time. However, even if that was the case, the amount of code/development in NOS (which grew from net.exe) far exceeds what was in net.exe, by many orders of magnitude.

> 2. Could any of these innovative systems ever have been developed from  
> scratch as open-source projects? Personally I doubt it. Two English  
> sayings come to mind - "Too many cooks spoil the broth" and "A camel is  
> a horse designed by a committee".

Any project has to be started by somebody, so it depends on how you approach it. Besides the example of NOS, we also have the example of Linux. All Linus wanted to do was to expand upon Minux, and in the process learn about operating systems. And like Phil Karn KA9Q of NOS fame, Linus stayed on as the "benevolent dictator" helping manage the code development process. Open source does not mean anarchy. And all these "cooks" are exactly what made Linux and NOS such a overwhelming success. Yet without a doubt, it was the original authors who set the ship on course and nudged it back every so often.

Yet, I think I see where you are going here, or at least have a opinion. If one where to ask the question, "Is UI-VIEW, WINAPRS, APRS-SA, DOSAPRS or MACAPRS good candidates for open source"? I would have to answer no. I don't think any of you set out to make your products open source and also development has been going on for so long it would take quite some time for anyone to come up to speed. As anyone knows that does code reviews, each programmer has their own style, be it good or bad. And when writing code, as Steve implied, you write for your audience. In this case, yourself. Now, if the respective products had been made open source early in the process, the bulk of the code would not have been written, and others could have stepped in.

I'm sorry if some took my comments as browbeating... they were not intended that way. My earlier point was only to say that I doubt if any of the closed source authors when they figure their time in, are making more then about \$0.25USD/hr. Notice not a single one objected to this figure. So if any \*future\* author was expecting to get rich off of APRS, you might think twice. So my point was that its not a big finical incentive being a closed source author, at least in APRS. I was planting seeds, not critiquing those already in the trenches.

73

Jeff

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## 986. [aprssid] new address

From: Jim Kerns <[jkerns@usit.net](mailto:jkerns@usit.net)>  
Date: Tue, 20 Jun 2000 16:08:14 -0400  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-92051-2000.06.20-15.10.44--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-92051-2000.06.20-15.10.44--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Please change or make note of my new email address ASAP  
[jkerns@ntown.net](mailto:jkerns@ntown.net)

Thanks

Jim,

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## 987. [aprssid] Re: \$GPWPL question

From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
Date: Tue, 20 Jun 2000 16:59:29 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Cc: [aprssid@tapr.org](mailto:aprssid@tapr.org)  
Message-ID: <[LYR842-92054-2000.06.20-16.03.48--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-92054-2000.06.20-16.03.48--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

On Tue, 20 Jun 2000, Byron Smith wrote:

> Remember that you were going to "filter" out the "-" from the downloading  
> of waypoints, so that you get more of the callsign into the GPS? Did  
> this get fixed in aprsdos?

Its on the DO list, but I doubt that even 0.01% of users use this feature,  
so it has not been high on the priority list.

bob

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## 988. [aprssid] Re: DIGI\_NED 0.1.2

From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
Date: Tue, 20 Jun 2000 17:10:10 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>

Message-ID: <LYR842-92056-2000.06.20-16.13.44--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

On Tue, 20 Jun 2000, Jeff King wrote about open-source:

> Your right to feel that way. But what if all you did was ham software and you  
> got hit by a truck tomorrow? How would your work carry on?..

As for APRSdos, I maintained a copy of the SOURCE in the family safebox  
with instructions to my wife to turn it over to TAPR in the case of my  
demise...

de WB4APR, Bob

---

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## 989. [aprssid] user contributed FindU scripts available under GNU open license

From: "Thomas M. Schaefer" <toms@inconnect.com>  
Date: Tue, 20 Jun 2000 15:26:29 -0600  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-92058-2000.06.20-16.29.19--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

If anyone would like the few Perl scripts I have written for searching the  
FindU database, simply do a search  
(<http://www.xmission.com/~uarc/search.htm>) and the result page will have a  
link at the bottom where you can download the script. It will display on  
your web browser, you can then put these on your own system. They have been  
tested against a Roxen web server running on Solaris. I have not tested it  
on Apache so please let me know what you run it against.

If you make changes or build on them, please let the group know so we can  
put a collection of links on a server. If anyone wants to maintain a list of  
links, that would be great. In the most distributed system possible, the  
links scripts will run on many different servers, but we can keep a single  
page of links available. I suspect this will just grow as we think up new  
uses of the data.

Keep in mind that according to Steve, everything is subject to change as  
FindU is still classified as development, so do not be surprised if these  
stop working some time, although I suspect Steve will let the APRS world  
know if he makes changes to the database.

One more item...as with any database, a linear search is to be avoided at  
all costs. If you are building your SQL query, please connect to the server,  
and get the database layout so you know what is available. I suspect at some  
point, the maximum number of records will have to be limited for each query.  
This database is not the place to experiment with SQL. Please try the query  
on a test database that has the same format. MySQL has client tools  
available so you should download these to play around with them.

Good Luck,

Tom NY4I

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## 990. [aprssid] APRS at Field Day

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Tue, 20 Jun 2000 17:36:59 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-92062-2000.06.20-16.41.06--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

With only 4 days to go, I may be making a big mistake, but we MAY have a  
1200 baud APRS satellite for one of the passes during Field Day

This announcement is totally premature, but if it comes, then I wanted to  
make sure that everyone had a chance to pack up what they need with enough  
time to think about it.

As you know, APRS via satellite has been limited to this point to users of Kenwood D7 and D700's because of the 9600 baud FSK. We have had two satellites more or less full time for the last several months. Then SUNSAT shut down due to overheating. They are hoping to turn it on for Field Day and maybe even put it in 1200 baud mode. If this is the case, then this is what you will need.

NOTHING TO RECEIVE! Just QSY your station to 145.825 during the pass and if you hear packets, your APRS system will decode and display them.

To TRANSMIT, you will need to transmit on 435.280, .285, .290, .295, .300 in that order as the pass progresses through 18 KHz of doppler.

BUT PLEASE limit your transmissions to no more than once every 30 seconds or so, and NEVER TRANSMIT if you cannot hear the bird. If you see your packet digipeated then STOP. So did everyone else. But you can try again in about 3 or 4 minutes to cover a different footprint.

Also, SHORTEN your position packets. WinAPRS position packets are normally very long.. with a lot of redundant data.

Again, this is only a possibility. But I just thought I would let you think about it. SUNSAT is not promising anything...

AND NEVER transmit 1200 baud AFSK via the analog birds unless its an emergency. The political damage to APRS in the eyes of the ANALOG world is not worth it...

bob

---

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## 991. [aprssig] Re: \$GPWPL question

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Tue, 20 Jun 2000 20:04:07 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-92094-2000.06.20-21.18.52--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 04:59 PM 6/20/00 -0400, Bob Bruninga blasted the following out into the ether:

>On Tue, 20 Jun 2000, Byron Smith wrote:

>

> > Remember that you were going to "filter" out the "-" from the downloading  
> > of waypoints, so that you get more of the callsign into the GPS? Did  
> > this get fixed in aprsdos?

>

>Its on the DO list, but I doubt that even 0.01% of users use this feature,  
>so it has not been high on the priority list.

>

>bob

A LOT more would use it if we had software or a "magic box" that would convert pos packets in WPL strings for the GPS. I tried the version of APRS Dos that transmitted WPL strings. Guess what? When I receive a pos packet from any other station, and it goes to the GPS, the GPS reports "invalid waypoint received" and several of my MANUAL waypoints are changed. Until we can prevent other stations' info from going to the GPS, this is a feature that probably won't be used.

7 3

Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)  
PGP Key ID 0xC3FDA66E

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

---

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## 992. [aprssid] Re: findu.com - drop impossible callsigns

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Tue, 20 Jun 2000 20:51:42 -0600  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-92099-2000.06.20-22.00.32--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 05:29 PM 6/13/00 -0400, Steve Dimse blasted the following out into the ether:

><snip>  
>If someone wants to track this down, a good starting  
>point is the new port 14502, which tells you the origin of every packet.

I've logged about 15 minutes of data, and I have a couple of questions about it.

First -- am I correct that the only valid lines start with an exclamation point? My Telnet application seems to word wrap at EXACTLY 80 characters. Here's a little example:

```
# aprsd 2.1.2pre4 June 15 2000 by WA4DSY
# **PLEASE EDIT THIS TO SUIT YOUR LOCAL REQUIREMENTS**
# Welcome to the WA4DSY APRS Atlanta area server.
# This server is running under Red Hat Linux 5.?.
# Direct comments to nobody@Nowhere.net . Type ctrl-D to disconnect.
aprsdATL>JAVA::javaTITLE:Live data from the Atlanta Linux APRS Server
!second.aprs.net:IGATE!KC7BXS-3>APW244,TCPIP*:=4332.03N/09644.45W-PHG0000/Wi
nAPR
S 2.4.4 -244-<620>
!second.aprs.net:IGATE!N6NR>APW247,TCPIP*:=4735.55N/12201.53WdPHG7560/Easts i
de F
ire District Chaplain (n6nr@arrl.net) -247-<630>
!second.aprs.net:IGATE!N7YT>APW245,WIDE4-3:_06210255c011s000g007t071r000p000
P000
h47b10223wDAV
!second.aprs.net:IGATE!K2MPH>APW228,N2MH-15,KB2EAR-1,K3ATI-11:=4056.08N/0741
1.56
W-PHG6030/WinAPRS 2.2.8 -NJPASWAYNE -228-<520>
!63.178.118.136:WXSVR!WXSVR>APRS:>WXSVR NHCHEF ICTSVS INDSVS ILXSVR SECIND
ICTSV
R EAXSVR PHXSVS CAESVR
!second.aprs.net:IGATE!KC4LWI>APW245,TCPIP*:_06201754c000s000g000t000r000p00
0P00
0h00b00000wU2K
!208.52.27.6:HH2B-19!HH2B-19>APW231,TCPIP*:=1833.33N/07218.80WVPHG0000/HH2b
in P
ort-au-Prince, HAITI -231-<530>
!207.50.44.115:KB5WIO!KB5WIO>APW241,TCPIP*:=3509.15N/10152.55W_PHG2280/Jimmy in
Amarillo, TX WinAPRS Registered, U2000 -TXRANAMARILLO-241-<530>
```

Note that each and every line break is a "hard" break.

>I used to spend hours tracking down things like this, sure glad this  
>isn't my problem!

I can well imagine!

Now, I'm trying to write a FoxPro program to find the bad stuff for us, so I need to ask -- just what EXACTLY is bad? SSID's over 15 come to mind, but is there something else? Perhaps a line that starts with a ! but has no callsign in it? Or something like that...

7 3  
Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)  
PGP Key ID 0xC3FDA66E

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

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### 993. [aprssig] 2.4.7 and weather objects/warnings...

From: Jim Duncan <ku0g@kcaprs.org>  
Date: Tue, 20 Jun 2000 22:31:25 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92107-2000.06.20-22.35.45--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

2.4.7 does not appear to reverse Igate the weather objects/watches/warnings from TCP/IP to VHF....

Also, a note to Dale Huguley: We LOVE this stuff in KC! Keep it coming!

Here are some suggestions from our users:

1) Can you make the objects EXPIRE so they go dark or drop out? May have to get with Die Swei Wunderkind for this....

2) I notice that the watch/warning messages are only sent one time. I'd like to suggest that you have these que'd and retransmitted once after 15 minutes and at 30 minute intervals until they expire. This will allow VHF station who may crash or come on-line late to get the latest WX info within a few minutes...

Anyone have any suggestions/fixes for the no-retrans problem with 2.4.4 and up? At present, I drop back to 2.4.3 during weather events so they get out for now....

Comments welcome!

--

73 de Jim, KU0G  
Chairman/Coordinator  
Kansas City APRS Working Group, W0APR  
First Alert Storm Team KMBC-TV9  
Mailto:ku0g@kcaprs.org  
Webpage: <http://www.kcaprs.org>

---

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### 994. [aprssig] D7AG questions

From: Mark Sailer <msailer@buoy.com>  
Date: Tue, 20 Jun 2000 23:46:34 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92108-2000.06.20-22.52.19--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi all,

While I'm waiting for my D7 to arrive, I have a few questions.

- Can the HT be connected to a computer to feed data to ARPSdos or Win APRS?
- What cable/connector is needed to feed a GPS signal to it?
- I have a Rand McNally GPS - can this be used (probably need to feed the GPS with external power - 9v battery??)
- Does APRSsat? work with the D7AG?

Thanks in advance. Trying to get ready for FD.  
Nothing like waiting for the last minute, huh?

Mark  
N2JTW

---

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### 995. [aprssig] Comment on Open Source discussion

From: Alan Heaberlin <amh@as.net>  
Date: Tue, 20 Jun 2000 23:11:17 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92137-2000.06.21-01.12.52--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I am a management consultant that working primarily in the non-profit arena. It has been my experience that you should NEVER give away that which you rely upon for your income. Once you give it away, it then becomes almost impossible to sell...Because they (they is us) know you will give it

away and will never respect your right to sell it. Unfortunate but true:  
When you give your livelihood away many people ignore the fact that what  
you do has value. They will suck your guts out and leave your remains aside  
like a dried out bug. Ever hear the expression, "Let me pick your brain?"  
Use your visual imagination...

If I discover a project which a struggling non-profit enterprise could use  
help with, and I am disposed to donate some of my time to further the  
project, I insist upon a non-disclosure agreement which specifies the  
protection of my identity (bullet-proof in 49 states). I have in the past  
even required a bond to insure my privacy as a contributor to a project  
because I had reason to believe it would affect my earning ability if  
disclosed.

I will however, donate my time to cook chili, serve hot dogs and ice cream  
bars at local festivals, man booths, clean yards and a plethora of other  
things that have nothing to do with my professional life. I also enjoy  
donating my services as a Ham whenever possible (just to keep things  
somewhat on-topic).

I do appreciate the availability of open source software and am mastering  
AGWPE (with WinAPRS thanx to Bill). I will be transmitting as soon as I  
figure out how to wire the parallel port interface to my PTT. I also don't  
mind sending money to shareware authors when I find a use for their  
product.

When you sell something to someone they feel like they own a part of you  
for their investment. When you give it away sometimes they act like they  
own you outright.

Just some extremely cynical perspective from my personal point of view.  
Alan Heaberlin W6AMH

---

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---

## 996. [aprssig] Re: DIGI\_NED 0.1.2

From: Roger Barker <roger@peaksys.co.uk>  
Date: Wed, 21 Jun 2000 08:35:17 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92147-2000.06.21-02.40.33--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In article <394FC32E.D33DF32B@aerodata.net>, Jeff King  
<jeff@aerodata.net> writes

>

>

>Roger Barker wrote:

>

>> I didn't want to get involved in an ongoing discussion over open-source,  
>> because you'll never convince me that it's in any way relevant to the  
>> world in which I live/work.

>

>Your right to feel that way. But what if all you did was ham software and you  
>got hit by a truck tomorrow? How would your work carry on? I'm sure  
>that would be of little concern to you (for obvious reasons), but might  
>concern your user base.

The aftermath of being hit by a truck is obviously of concern to me, but  
for rather more personal reasons than what my user base would do:-

If I had led a good life, then I would be in that wonderful rest home in  
the sky where all the good programmers' go - where your code always  
works first time and never has bugs; where every project is wonderfully  
satisfying and deadlines are easily met; where no-one attempts to rip  
off your programs or crack your registration system; and where happy  
Windows programmers sit in a flowery meadow listening to recordings of  
the wise words of god^H^H^H uncle Bill.

However, if I had led a bad life, then I would have to suffer eternal  
damnation, surrounded for 24 hours a day by Linux groupies, incessantly  
screaming at me that Linux is the best operating system; that everyone  
who uses Windows is stupid; that all code should be open-source; and  
that as soon as they've rebuilt their kernel just one more time, they  
might actually write a few lines of useful code themselves, but they  
never do...

E0F

--

Roger Barker, G4IDE - roger@peaksys.co.uk  
For UI-View go to - <http://www.packetradio.org.uk>  
For WinPack go to - <http://www.peaksys.co.uk>

---

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## 997. [aprssig] RE: DIGI\_NED rule syntax

From: "Henk de Groot (EMN)" <Henk.de.Groot@emn.ericsson.se>  
Date: Wed, 21 Jun 2000 09:37:58 +0200  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92148-2000.06.21-02.42.12--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hello Bob,

> -----Original Message-----  
> We could take another look at "preemptive" digipeating where  
> the DIGI list is not viewed as sequential, but as a list of  
> all digis that should repeat the packet only once.

Yes, thought about that too, in that case the digi path is more or less a 'pick-list'. I see a use for that, you can make a list of all digis in the area you want to digipeat. While driving the nearest digi is most likely to pick the packet. Nice thing is that your packet stays within the specified area. With WIDEN-N it would spread more or less circular around the area you are located. If you want to be heard in an area but are at the border of that area it is tempting to add more widens and widen the circle-with a lot of spill-over in areas you don't even want to cover.

Okay, sorry for the rambling. I think I understand the purpose, I like the concept. It is very easy to build also. When a digipeater finds its call in the pick-list it has to take the packet. The digi has to shuffle the path a bit to make sure used digis are on the lefthand-side and not used digis on the righthand side. If the left-hand side is assembled in the right order then it is visible at the end which path the packet really took. Maybe even the order on the righthand-side can be ordered in the natural order so that normal digipeaters that do not know the trick can carry on the packet (eh, maybe, I think all digis in the area you want to cover should know this trick otherwise you cannot really roam in the complete area without adjusting the path...).

Example how this could work:

STATION>APRS,DIGI1,DIGI2,DIGI3,DIGI4

Now it passes DIGI3, nearest to DIGI3 is DIGI2. DIGI3 puts itself at the lefthand side and makes DIGI2 the next DIGI.

STATION>APRS,DIGI3\*,DIGI2,DIGI1,DIGI4

Now the packet is heard by DIGI1 (can happen). Also near to DIGI1 is DIGI2. DIGI1 puts itself at the lefthand side, after all used digis.

STATION>APRS,DIGI3\*,DIGI1\*,DIGI2,DIGI4

A receiver of this packet can see that the packet traveled over DIGI3 and DIGI1 to reach him.

Well, I think it works without violating the AX.25 specification if the 'used' digis are kept at the lefthand-side. There should never appear an unused digi between used digis - that gives ambiguous interpretations and is not covered in the AX.25 spec.

Disadvantage is that the originator has to know the digis in the area to be covered. Advantage is that the packets are more or less contained in that area and not spill over in adjacent area.

I have another wild idea. Generic digipeater names named after the locator where you are. I'm located in J032AF, adjacent to J022xx. So what if I just could do the following (in combination with 'pick-list' digipeating):

STATION>APRS,J032,J022,J021

So now I'm saying that digipeaters in J032, J022 and J021 should take my packet. I don't know the digipeater names but maybe I know where I am...



Of course this could again lead to confusion if J022 is a locator part or a HAM callsign...

Kind regards,

Henk.

---

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## 998. [aprssig] Re: DIGI\_NED 0.1.2

From: Hamish Moffatt <[hamish@cloud.net.au](mailto:hamish@cloud.net.au)>  
Date: Wed, 21 Jun 2000 23:07:20 +1000  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-92171-2000.06.21-08.11.27--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Tue, Jun 20, 2000 at 02:09:38PM -0400, Jeff King wrote:

> > Open source is this year's fad...  
>  
> The name, or the concept? Concept has been around as long as I have been  
> in computers, dating to the Cosmac Elf, KIM1 and my "big board" CP/M machine,  
> most certainly longer then that I am sure.

The name is a bit of a fad. It's already being abused. (For example, Sun would like us to think that the "Sun Community Source License" is an open source license, but it isn't.) Some of the guys who set up [www.opensource.org](http://www.opensource.org) (specifically Bruce Perens, K6BP) have suggested we go back to the original name -- free software.

> had released the source, it would have made their job easier, but "IMHO" this is  
> a long way from "browbeating". No one is trying to force anyone to do anything  
> from what I have read.

Yep. I'm just trying to encourage more free software among hams. We have plenty of free flow of ideas in other areas (QST, QEX, etc are full of experiments each month), why not software?

Hamish

--

Hamish Moffatt VK3SB <[hamish@debian.org](mailto:hamish@debian.org)> <[hamish@cloud.net.au](mailto:hamish@cloud.net.au)>

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## 999. [aprssig] Re: DIGI\_NED 0.1.2

From: Hamish Moffatt <[hamish@cloud.net.au](mailto:hamish@cloud.net.au)>  
Date: Wed, 21 Jun 2000 23:24:28 +1000  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-92177-2000.06.21-08.28.18--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Tue, Jun 20, 2000 at 11:44:49AM -0700, Brendan Keyport wrote:

> OpenSource products I've seen has been week anyway. too many cooks  
> stirring the pot...

Then you haven't really tried it. What do you know about Linux? Lots of contributors, works very well. Same for the other free OSs (\*BSD).

Hamish

--

Hamish Moffatt VK3SB <[hamish@debian.org](mailto:hamish@debian.org)> <[hamish@cloud.net.au](mailto:hamish@cloud.net.au)>

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## 1000. [aprssig] Open Source Discussion TOPIC Please

From: "Lumpy" <[lumpy@digitalcartography.com](mailto:lumpy@digitalcartography.com)>  
Date: Wed, 21 Jun 2000 07:42:54 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>

Message-ID: <LYR842-92180-2000.06.21-08.44.32--lyris.aprssid@lists.tapr.org>

Rendered body type: text/plain

May I ask that you guys discussing open source  
change the name of the subject, please?

I'm very interested in digi\_NED, I have to  
weed through a lot of posts that don't  
pertain to the topic.

Thanks Mucho -

lumpy n0eqh

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## 1001. [aprssid] ADMIN Re: DIGI\_NED 0.1.2

From: "Horzepa, Stan" <Stan\_Horzepa@adc.com>

Date: Wed, 21 Jun 2000 08:40:43 -0500

To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>

Message-ID: <LYR842-92181-2000.06.21-08.47.43--lyris.aprssid@lists.tapr.org>

Rendered body type: text/plain

The "open source" discussion is not only veering topic, but is also starting to get nasty, so either  
discuss it in a civil manner as it relates to APRS or take it off the APRSSID.

Thank-you,

Stan Horzepa, WA1LOU, APRSSID administrator

---

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## 1002. [aprssid] ADMIN Re: DIGI\_NED 0.1.2

From: "Horzepa, Stan" <Stan\_Horzepa@adc.com>

Date: Wed, 21 Jun 2000 08:46:07 -0500

To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>

Message-ID: <LYR842-92182-2000.06.21-08.50.12--lyris.aprssid@lists.tapr.org>

Rendered body type: text/plain

That should have read:

The "open source" discussion is not only veering OFF topic, but is also starting to get nasty, so either  
discuss it in a civil manner as it relates to APRS or take it off the APRSSID.

Thank-you,

Stan Horzepa, WA1LOU, APRSSID administrator

-----Original Message-----

From: Horzepa, Stan

Sent: Wednesday, June 21, 2000 9:41 AM

To: TAPR APRS Special Interest Group

Subject: [aprssid] ADMIN Re: DIGI\_NED 0.1.2

The "open source" discussion is not only veering topic, but is also starting to get nasty, so either  
discuss it in a civil manner as it relates to APRS or take it off the APRSSID.

---

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## 1003. [aprssid] Re: 2.4.7 and weather objects/warnings...

From: "Dick Stanich" <dstanic@c2i2.com>

Date: Wed, 21 Jun 2000 8:53:32

To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>

Message-ID: <LYR842-92183-2000.06.21-08.57.11--lyris.aprssid@lists.tapr.org>

Rendered body type: text/plain

Winaprs 247 does handle the NWS warnings and alerts correctly. But,  
everyone needs to be on the same program. If an Igate gets the warnings  
from the internet feed and wants to automatically alert VHF locals, your

Winaprs program must be able to understand UTC time with the correct UTC offset. The warnings expire based on UTC (Zulu) time. Your computer clock should be set for local time.

Other factors: Do you have the NWS codes set up in Stations.txt, set for re-broadcast?

Is everyone using v2.4.7.?

2.4.3 works for an Igate and locals can use 2.4.4. We have found that certain versions of Winaprs do not work because the clock routines were wrong. If the clocks are not setup correctly, the bulletins will never be seen because they have already expired according to your clock settings.

Winaprs 2.4.7 works for Igates. My maps light up for the NWS counties and they also work for re-broadcast to locals. Most of our locals are using 2.4.7. I could not get 244, 245, 246 to work the NWS stuff from an Igate, unless we set Winaprs offset to 0 (UTC zero) and the computer clock to UTC time as well.

Everyone should be using 2.4.7. it works if set up correctly.

Another note... If you use Afilter as the front end to your Igate, you can resend the data to your locals manually, and its much easier to modify your stations.txt without rebooting Winaprs.

2.4.7. zipped, (just the executable), and Afilter can be found at <http://www.c2i2.com/~yumaprs/>

Hope this helps. Afilter is fully documented.

Dick, KB7ZVA  
Southwest Arizona APRS Group  
Yuma Igate

---

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---

#### 1004. [aprssig] Re: DIGI\_NED 0.1.2

From: Hamish Moffatt <[hamish@cloud.net.au](mailto:hamish@cloud.net.au)>  
Date: Thu, 22 Jun 2000 00:03:41 +1000  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-92187-2000.06.21-09.07.27--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Tue, Jun 20, 2000 at 07:28:45PM +0100, Roger Barker wrote:  
> 2. Could any of these innovative systems ever have been developed from  
> scratch as open-source projects? Personally I doubt it. Two English  
> sayings come to mind - "Too many cooks spoil the broth" and "A camel is  
> a horse designed by a committee".

I think this an orthogonal issue to open-source versus proprietary.  
Any team can suffer these problems, regardless of the license  
under which their work is distributed.

Actual open source projects differ quite widely in their development  
process. Linux takes the release often approach; others like  
(notably) Apache and XFree86 take a much more controlled approach  
where there is a formal development team, internal-only source  
releases etc. Both are fine, and both have completely open licenses.

Hamish  
--  
Hamish Moffatt VK3SB <[hamish@debian.org](mailto:hamish@debian.org)> <[hamish@cloud.net.au](mailto:hamish@cloud.net.au)>

---

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#### 1005. [aprssig] APRS frequencies/modes?

From: "Smith, Tim" <[n1btq@ne.mediaone.net](mailto:n1btq@ne.mediaone.net)>  
Date: Wed, 21 Jun 2000 10:08:08 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-92189-2000.06.21-09.09.20--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Can someone tell me what the accepted or most popular frequencies for 6 and 10 meters as well as 70 cm?

Thanks,

Tim N1BTQ

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---

## 1006. [aprssig] Re: 2.4.7 and weather objects/warnings...

From: Ray Vaughan <[ray@rayvaughan.com](mailto:ray@rayvaughan.com)>  
Date: Wed, 21 Jun 2000 10:40:51 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-92194-2000.06.21-09.44.42--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 08:53 AM 6/21/00 +0000, you wrote:  
>Other factors: Do you have the NWS codes set up in Stations.txt, set for  
>re-broadcast?  
>  
>Is everyone using v2.4.7.?

Here might be a problem. I tried running stations.txt in 2.4.7 and it's not pretty. It appears that each time a station appears in the server stream it's transmitted each time. And since it's transmitted, it comes back. And goes back on the stream. And is re transmitted. In other words, when you turn on this feature you run the risk of flooding the local VHF channel with the same data over and over again. For this reason I've had to delete stations.txt until there's some sort of limit on transmission frequency for any given station.

---

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## 1007. [aprssig] Re: 2.4.7 and weather objects/warnings...

From: Earl Needham <[kd5xb@amsat.org](mailto:kd5xb@amsat.org)>  
Date: Wed, 21 Jun 2000 09:19:47 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-92197-2000.06.21-10.22.20--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 08:53 AM 6/21/00 +0000, Dick Stanich wrote:  
>Winaprs 247 does handle the NWS warnings and alerts correctly. But,  
>everyone needs to be on the same program. If an Igate gets the warnings  
>from the internet feed and wants to automatically alert VHF locals, your  
>Winaprs program must be able to understand UTC time with the correct UTC  
>offset. The warnings expire based on UTC (Zulu) time. Your computer clock  
>should be set for local time.

Only problem here is that the warnings I receive from  
<http://www.weatherguys.com/> ARE IN LOCAL TIME. I keep hearing about UTC  
and it just doesn't pan out here.

I get these warnings via email. That's really the only way to do  
so here. I've been "called on the carpet" twice now over this. Is there a  
different email service to work in UTC? There are 2 time zones in my local  
area.

I have been, until recently, been transmitting the warnings in my  
local time. I adjust the time manually to account for a warning over in  
the Central time zone...

Any HELPFUL suggestions would be appreciated,  
Earl

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## 1008. [aprssig] long journey

From: "Roger Rockwell" <wb4trz@usa.net>  
Date: Wed, 21 Jun 2000 10:32:59  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92200-2000.06.21-10.36.46--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hello all  
Thanks to all for all the email and tips.

New info and Pictures uploaded today. Sorry abt leaving out www last time.  
See you later.  
<http://www.qsl.net/k1pns/>  
Roger Rockwell

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## 1009. [aprssig] Re:OpenSource

From: Brendan Keyport <bkeyport@uswest.net>  
Date: Wed, 21 Jun 2000 09:08:42 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: aprssig@tapr.org  
Message-ID: <LYR842-92203-2000.06.21-11.12.34--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>On Tue, Jun 20, 2000 at 11:44:49AM -0700, Brendan Keyport wrote:  
>> OpenSource products I've seen has been week anyway. too many cooks  
>> stirring the pot...  
>  
>Then you haven't really tried it. What do you know about Linux?  
>Lots of contributors, works very well. Same for the other free OSs

I've tried 'em. They don't even come close to the power that closed source OSes come. Nowhere near, and 30 million more exploits too. APRS doesn't need that, although the excessive cost of the applications, and little use \_I\_ get out of 'em is a problem. I'm still only doing a tracker - without a computer type unit on it, matter of fact, I'm gonna rebuild my tracker to not have the option of computer control - the programs just aren't acceptable for a mobile unit - unsafe, unreasonable, and missing features that should be in any program for mobile "mapping".

In any case, OpenSource has it's major drawbacks - most of which are not correctable, and, like I said earlier, the development "Team" turns whiny rather quickly.

---

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## 1010. [aprssig] Re: Comment on Open Source discussion

From: Mark Sproul <kb2ici@amsat.org>  
Date: Wed, 21 Jun 2000 12:28:12 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92209-2000.06.21-11.33.48--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I want to thank Alan Heaberlin, W6AMH, for his very good points on open source and what people use to make a living.

Jeff King commented about the amount of money made, he is correct that it comes down to not very much per hour. HOWEVER, does anyone know what it costs to go to Dayton and set up a booth, by the time I am all finished, it has cost several thousand dollars once you consider the booth, the hotel, the travel. Yes I might go anyway, but probably not every year.

We are asked to attend way more hamfests to give talks to than we have time for. We have very high phone bills and I have had to buy a lot more computers than I might have otherwise.

I could go on, but most of it has been said in other posts on the subject.

Mark

Mark Sproul  
Software Engineer @ Assoc Press |  
msproul@apmail.ap.org | Work: 609-860-7120  
kb2ici@amsat.org (either is OK) | Fax: 609-860-7129

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## 1011. [aprssig] Re:OpenSource

From: Jeff King <jeff@aerodata.net>  
Date: Wed, 21 Jun 2000 12:37:19 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>,  
aprssig@tapr.org  
Message-ID: <LYR842-92210-2000.06.21-11.39.42--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Brendan Keyport wrote:

> >On Tue, Jun 20, 2000 at 11:44:49AM -0700, Brendan Keyport wrote:  
> >> OpenSource products I've seen has been week anyway. too many cooks  
> >> stirring the pot...  
> >  
> >Then you haven't really tried it. What do you know about Linux?  
> >Lots of contributors, works very well. Same for the other free OSs  
>  
> I've tried 'em. They don't even come close to the power that closed  
> source OSes come.

I question this statement. I use Windows for my GUI front ends, yet Linux sits under many things. And in case you didn't notice, slowly but surely the APRSSERVE backbone is going over to Linux. It never ran on Windows. I don't think my WIN98 box has gone over 10 days without needing to be rebooted, where-as the last time I rebooted my Linux box was months ago.... heck is so reliable I "borrowed" its video monitor a few weeks ago!

I think some have put me in the Linux camp. I'm not. I'm a strong advocate of using the best tool for the job. Linux is not always the best tool for the job... if anything, the customers seem to like windows for the front ends, a fact that can't be ignored no matter how much one preaches the Linux party line.

> In any case, OpenSource has it's major drawbacks - most of which are  
> not correctable, and, like I said earlier, the development "Team"  
> turns whiny rather quickly.

The image that popped into my mind when you said whiny was Bill Gate's deposition before the Justice Department. Might want to check it out. But that wasn't your point I'm sure. BTW, unlike most of my Linux peers, I'm "kinda" on Microsoft's side.... at least I'm trying to be objective here, especially in light of the fact Microsoft isn't at all like the Standard Oil anti-trust case.

You ever see some academics debate a subject? Nothing to do with Linux or open source..... but I'm sure you would call them whiny also. Yet, they will call what they are doing peer review. Same thing with Open Source, and it has its advantages as well as disadvantages. There ain't no free lunch here, you want them to stop whining, start paying them the 100K+ a year they deserve, and if they start to whine about something you want them to do, threaten to fire them. You see, open source is more of peer to peer relationship, where as the model you are used to is master and slave. Both have their advantages and disadvantages.

Regards,

Jeff

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## 1012. [aprssig] Re: 2.4.7 and weather objects/warnings...

From: "Dick Stanich" <dstanic@c2i2.com>  
Date: Wed, 21 Jun 2000 11:46:21  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92213-2000.06.21-11.50.11--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> >Other factors: Do you have the NWS codes set up in Stations.txt, set for  
> >re-broadcast?  
> >  
> >Is everyone using v2.4.7.?  
>  
> Here might be a problem. I tried running stations.txt in 2.4.7 and it's not pretty. It appears that  
each time a station appears in the server stream it's transmitted each time. And since it's  
transmitted, it comes back. And goes back on the stream. And is re transmitted. In other words,  
when you turn on this feature you run the risk of flooding the local VHF channel with the same data over  
and over again. For this reason I've had to delete stations.txt until there's some sort of limit on  
transmission frequency for any given station.

That's great. At least 2.4.7 DOES recognize WX stuff off the inet and IS  
going to your TNC.

Next, how many digis hear your signal? If your unproto path from the Igate  
is set with too many hops, yes, you will see your stuff several  
times... but you are actually only sending it once. Change your unproto  
path to something the digis don't echo, as a test. Like Unproto via TCP/IP.  
Nothing should get re-broadcasted from your area digis. It is unlikely, the  
WX bulletin is feeding back into the server. Next, try a single WIDE. Your  
local digis could be looping your signal several times. Dale's WX stuff  
comes off the parser one time. But, as the alerts and warning change they  
can be re-sent with different expires.

The WX data coming off the parser, is fully automatic. When your connected  
to a server, you should see all the data flying. Only the codes in  
stations.txt get re-broadcasted from you. And they have to be specific.  
PHXSVR<tab>IGATE just that info.

If your Igate is set to WIDE5-5, that's 6 hops across the digi network. How  
many times is the signal coming back to you? Not good!

Dick, KB7ZVA

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### 1013. [aprssig] Re: Comment on Open Source discussion

From: Jeff King <jeff@aerodata.net>  
Date: Wed, 21 Jun 2000 12:52:07 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92214-2000.06.21-11.54.02--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi Mark:

Since you mentioned me in your post, I feel I need to make sure you understand  
my points clearly.

Mark Sproul wrote:

> Jeff King commented about the amount of money made, he is correct that it  
> comes down to not very much per hour.

OK, thanks, I was guessing, but seeing how much effort you put into your product  
and the amount of customer support you gave, I just made the guess it wasn't a  
whole lot if you broke it down to a hourly rate.

> HOWEVER, does anyone know what it  
> costs to go to Dayton and set up a booth, by the time I am all finished, it  
> has cost several thousand dollars once you consider the booth, the hotel,  
> the travel.

I know the ones I have gone to, they want to charge you for everything. Electricity,  
cartage, backdrops, even the rental on the table. I've spent upwards of \$3000 to  
\$10000 dollars depending on the location.... and that's only for a 10x10 booth! I  
think the APRS booth is what.... 10x30? Impressive you can do it for \$3000, yet  
that's a far cry from a \$10 hamfest table. Not cheap.

I made this point before, but I want to make it crystal clear since you tied both  
points together. I was not at all trying to pressure you or any other of the existing

authors into releasing their source code.... fact of the matter is, I don't think anyone has tried to do that here in the discussion. The point I was trying to make, was that for any new authors entering APRS, that there simply wasn't riches at the end of the rainbow. It has to be a labor of love (or that "itch"), which clearly it is for you and all of the APRS authors.

73

Jeff

---

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---

## 1014. [aprssig] Re: 2.4.7 and weather objects/warnings...

From: Ray Vaughan <ray@rayvaughan.com>  
Date: Wed, 21 Jun 2000 13:19:57 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92220-2000.06.21-12.23.47--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 11:46 AM 6/21/00 +0000, you wrote:  
> > >Other factors: Do you have the NWS codes set up in Stations.txt, set for  
> > >re-broadcast?  
> > >  
> > >Is everyone using v2.4.7?  
> > >  
> > Here might be a problem. I tried running stations.txt in 2.4.7 and it's not pretty. It appears that each time a station appears in the server stream it's transmitted each time. And since it's transmitted, it comes back. And goes back on the stream. And is re transmitted. In other words, when you turn on this feature you run the risk of flooding the local VHF channel with the same data over and over again. For this reason I've had to delete stations.txt until there's some sort of limit on transmission frequency for any given station.  
>  
>That's great. At least 2.4.7 DOES recognize WX stuff off the inet and IS  
>going to your TNC.  
>  
>Next, how many digis hear your signal?

2. But that's not the problem. For the popular stations that many people want to track across the US, you see the same line over and over on the Server feed. So WinAPRS 2.4.7 transmits a position for each line. It's one long transmission from my station over and over again. The echo isn't only happening at my station, it's happening ANYWHERE an I-GATE sends out a station in station.txt.

>The WX data coming off the parser, is fully automatic. When your connected  
>to a server, you should see all the data flying. Only the codes in  
>stations.txt get re-broadcasted from you. And they have to be specific.  
>PHXSVR<tab>IGATE just that info.

While that won't be as bad as the popular stations, there still might be more than one of us sending them to the air. so we send, we hear each others transmission via a digi, put it on the net since we heard it, then the other station sees it on the net, retransmits it....

Until I hear this bug is fixed, or there's some limit on how often WinAPRS sends a duplicate position report from Internet -> RF, I'll wait.

>If your Igate is set to WIDE5-5, that's 6 hops across the digi network. How  
>many times is the signal coming back to you? Not good!

No, I'm not running WIDE5-5. But if two I-GATES can hear each other direct, you can see this problem with out path. Sure, a stupid path makes it worse, but it's a problem even without digis.

---

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## 1015. [aprssig] RE: Monitoring on Port 14502

From: Ian Wade <Ian.Wade@care4free.net>  
Date: Wed, 21 Jun 2000 18:44:10 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92223-2000.06.21-12.48.15--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In article <LYR14778-91983-2000.06.20-09.44.53--Ian.Wade#care4free.net@lists.tapr.org>, Jeff Brenton <jeffb@espi.com> writes  
>One thing to remember is that PACLEN \*only\* affects TRANSMIT. A station



>with PACLEN 64 or some other value (64 is the HF default on Kantronics  
>TNCs) will still RECEIVE a 256-byte packet without a problem, but packets  
>the station sends will be a problem.

That's fine, but there's more to it than that. If you're listening to an  
IGate, you could receive many more bytes than 256:

The header can consist of the source call + the dest call + 8 digit  
calls; i.e. 10 calls.

Each call can be up to 9 bytes (e.g. WB4APR-15), plus > or ,

One call will have an asterisk.

Adding all this up, you get 101 bytes max of call-related information in  
the header.

Plus extraneous (but legal) TNC status information in the header (e.g.  
timestamp): say 25 bytes max. Running total = 101 + 25 = 126.

Then follows the data, up to 256 bytes. Running total = 126 + 256 bytes  
= 382 bytes.

Plus CRLF.

Running total = 382 + 2 = 384 bytes.

Question 1: Will your favorite APRS program handle 384 bytes in a packet  
properly, without running off the end of the input buffer and crashing?  
It should.

Question 2: Will your favorite APRS program recognize and ignore  
extraneous TNC status information in the header? And still interpret the  
packet properly? It should.

But there's even more to it than that. Under fault conditions, it's  
possible that the data will be corrupted. This includes the CRLF. So  
packets may turn out to be \*much\* longer than 384 bytes.

Question 3: Will your favorite APRS program handle \*thousands\* of bytes  
in a packet properly, without running off the end of the input buffer  
and crashing? It should.

If the answer to any of these questions is "no", you should get your  
money back <grin>.

73  
Ian, G3NRW  
Technical Editor, APRS Protocol Specification

```
--
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| <APRSdec> APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

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## 1016. [aprssi] RE: Monitoring on Port 14502

From: Steve Dimse <k4hg@tapr.org>  
Date: Wed, 21 Jun 2000 13:54:04 -0400  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-92225-2000.06.21-12.57.51--lyris.aprssi@lists.tapr.org>  
Rendered body type: text/plain

On 6/21/00 1:44 PM Ian Wade (Ian.Wade@care4free.net) wrote:

>That's fine, but there's more to it than that. If you're listening to an  
>IGate, you could receive many more bytes than 256:

>

No, you can't. APRServe and aprsd limit the packets they send to just

under 256 bytes.

---

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## 1017. [aprssig] Re: 2.4.7 and weather objects/warnings...

From: "Dennis Hudson, N2LBT" <[n2lbt@n2lbt.com](mailto:n2lbt@n2lbt.com)>  
Date: Wed, 21 Jun 2000 13:56:09 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-92226-2000.06.21-12.59.54--lyris.aprssig@lists.tapr.org](mailto:LYR842-92226-2000.06.21-12.59.54--lyris.aprssig@lists.tapr.org)>  
Rendered body type: text/plain

>> At 08:53 AM 6/21/00 +0000, Dick Stanich wrote:  
>> Winaprs 247 does handle the NWS warnings and alerts correctly. But,  
>> everyone needs to be on the same program. If an Igate gets the warnings  
>> from the internet feed and wants to automatically alert VHF locals, your  
>> Winaprs program must be able to understand UTC time with the correct UTC  
>> offset. The warnings expire based on UTC (Zulu) time. Your computer clock  
>> should be set for local time.

I think there are a few different things being discussed here.

The first which I believe Jim, KU0G was originally talking about it Dale Huguley, KG5QD's parser for the GTE "weather wire". For the info on setting that up see <http://kg5qd.home.att.net/> . I think they are broadcast in Zulu and the different software clients are in different states of handling that correctly. Keep in mind that this is an "automatic" system that does not require an operator so it should not matter what format it's in as long as the client you are using handles it correctly. I also would love to see someone come up with some code to buffer the alerts, so they could be sent repetitively during a watch or warning, until they expire. I have seen one of the objects for T-Storm on my D700, and let me say how cool that was. I did not see it on a Mac/Win client, so I do not know what happened to the object, if it expired or not.

I don't believe the documentation there mentions setting up and IGate running APRSd, but I have it running by putting the PIL and CW combinations in my gate2rf list. It appears to be working fine, automatically, flawlessly I might add. If someone knows another way to setup APRSd for this, please let me know.

>  
> Only problem here is that the warnings I receive from  
> <http://www.weatherguys.com/> ARE IN LOCAL TIME. I keep hearing about UTC  
> and it just doesn't pan out here.

I believe UTC you are hearing refers to the above mentioned automatic warnings

>  
> I get these warnings via email. That's really the only way to do  
> so here. I've been "called on the carpet" twice now over this. Is there a  
> different email service to work in UTC? There are 2 time zones in my local  
> area.  
>  
> I have been, until recently, been transmitting the warnings in my  
> local time. I adjust the time manually to account for a warning over in  
> the Central time zone...  
>  
> Any HELPFUL suggestions would be appreciated,  
> Earl

Secondly we have the original NWS alerts that originate from a Win/Mac/Xaprs á la Sproul software package which I think Earl is talking about. This is only to be sent from an "authorized" NWS liaison station. These alerts are sent out in Local Time, and repeat about every 20 minutes, and to my knowledge this method has pretty much always worked as intended with Win/Mac APRS clients. Also, they usually are sent out from a local station, manually, usually on VHF. If that authorized station is not on the local VHF lan (ie.at work) then they must be setup at the local IGate to allow Internet>RF.

Different IGate programs handle this differently. In APRSd, the station should be in the gate2rf section. I believe APRSd should already know that it came from the internet, and not re-gate the message into the internet stream and back again. There should be no "flooding" happening. That is the whole point of using a smart I-Gate in the first place. If one is using a

Win/Mac APRS client as an IGate, I do not know how Mac/Win APRS handles it's IGating. I assume it is smart enough to not Gate some thing back forth either. If it is having problems with that, possibly you should consider using the APRSd or APRSServe software. It is not nearly as scary setting this up as I though it might be, and it will run for weeks, months, or even years without crashing or needing attending to.

N2LBT, Dennis

Capital Region of NY IGate, APRSdaly  
<http://www.n2lbt.com>

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## 1018. [aprssig] RE: Monitoring on Port 14502

From: Ian Wade <[Ian.Wade@care4free.net](mailto:Ian.Wade@care4free.net)>  
Date: Wed, 21 Jun 2000 19:13:54 +0100  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-92228-2000.06.21-13.17.55--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In article <200006211754.NAA12032@blount.mail.mindspring.net>, Steve Dimse <[k4hg@tapr.org](mailto:k4hg@tapr.org)> writes  
>On 6/21/00 1:44 PM Ian Wade ([Ian.Wade@care4free.net](mailto:Ian.Wade@care4free.net)) wrote:  
>  
>>That's fine, but there's more to it than that. If you're listening to an  
>>IGate, you could receive many more bytes than 256:  
>>  
>No, you can't. APRSServe and aprsd limit the packets they send to just  
>under 256 bytes.  
>

\*Plus\* the header, or \*including\* the header?

73

Ian, G3NRW  
Technical Editor, APRS Protocol Specification

--  
+-----+  
| APRS on 144.800 [I09ISX] ~55km/35 miles NNW of London |  
| email: [g3nrw@arrl.net](mailto:g3nrw@arrl.net) |  
| |  
| APRS PROTOCOL SPEC: <http://www.tapr.org/tapr/html/Faprswg.html> |  
| <APRSdec> APRS DECODER: <http://www.netro.co.uk/aprs.htm> |  
+-----+

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## 1019. [aprssig] Re: 2.4.7 and weather objects/warnings... and IGATES

From: "Dennis Hudson, N2LBT" <[n2lbt@n2lbt.com](mailto:n2lbt@n2lbt.com)>  
Date: Wed, 21 Jun 2000 14:14:26 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-92229-2000.06.21-13.18.05--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>>>> Other factors: Do you have the NWS codes set up in Stations.txt, set for  
>>>> re-broadcast?  
>>>>  
>>>> Is everyone using v2.4.7?  
>>>>  
>>> Here might be a problem. I tried running stations.txt in 2.4.7 and it's  
>>> not pretty. It appears that each time a station appears in the server  
>>> stream it's transmitted each time. And since it's transmitted, it comes  
>>> back. And goes back on the stream. And is re transmitted. In other  
>>> words, when you turn on this feature you run the risk of flooding the local  
>>> VHF channel with the same data over and over again. For this reason I've  
>>> had to delete stations.txt until there's some sort of limit on transmission  
>>> frequency for any given station.  
>>>  
>>> That's great. At least 2.4.7 DOES recognize WX stuff off the inet and IS  
>>> going to your TNC.

```
>>
>> Next, how many digis hear your signal?
>
> 2. But that's not the problem. For the popular stations that many people
> want to track across the US, you see the same line over and over on the Server
> feed. So WinAPRS 2.4.7 transmits a position for each line. It's one long
> transmission from my station over and over again. The echo isn't only
> happening at my station, it's happening ANYWHERE an I-GATE sends out a station
> in station.txt.
```

I don't think that happens with APRSd, only if a station is not heard locally (extended hops or from another IGate) it will allow a packet out. I did not know this was a problem with Mac/Win APRS.

```
>
>> The WX data coming off the parser, is fully automatic. When your connected
>> to a server, you should see all the data flying. Only the codes in
>> stations.txt get re-broadcasted from you. And they have to be specific.
>> PHXSVR<tab>IGATE just that info.
>
> While that won't be as bad as the popular stations, there still might be more
> than one of us sending them to the air. so we send, we hear each others
> transmission via a digi, put it on the net since we heard it, then the other
> station sees it on the net, retransmits it....
>
> Until I hear this bug is fixed, or there's some limit on how often WinAPRS
> sends a duplicate position report from Internet -> RF, I'll wait.
```

I'm wondering why there are multiple stations IGateing from an area. That could really be your problem.

```
>> If your Igate is set to WIDE5-5, that's 6 hops across the digi network. How
>> many times is the signal coming back to you? Not good!
>
> No, I'm not running WIDE5-5. But if two I-GATES can hear each other direct,
> you can see this problem with out path. Sure, a stupid path makes it worse,
> but it's a problem even without digis.
```

Dennis, N2LBT

---

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## 1020. [aprssig] RE: Monitoring on Port 14502

From: Dale Heatherington <[dale@wa4dsy.net](mailto:dale@wa4dsy.net)>  
Date: Wed, 21 Jun 2000 14:10:01 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-92230-2000.06.21-13.19.53--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-92230-2000.06.21-13.19.53--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

On Wed, 21 Jun 2000, you wrote:

```
> On 6/21/00 1:44 PM Ian Wade (Ian.Wade@care4free.net) wrote:
>
> >That's fine, but there's more to it than that. If you're listening to an
> >IGate, you could receive many more bytes than 256:
> >
> No, you can't. APRServe and aprsd limit the packets they send to just
> under 256 bytes.
```

Well, not exactly. Versions of aprsd up through 2.1.1 limited total packet length to 1024 bytes including CR-LF. Early pre-release aprsd212 limited them to 256. Then, upon realizing how long they could get I increased the buffers to 400 bytes in pre-release 4 and up. That's what they will be in final version 2.1.2 unless there are objections. This is TOTAL packet length, not just the data part.

--

Dale Heatherington  
[dale@wa4dsy.net](mailto:dale@wa4dsy.net)  
Web Page <http://www.wa4dsy.net>  
Sent by KMail for Linux

---

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## 1021. [aprssig] RE: Monitoring on Port 14502

From: Steve Dimse <k4hg@tapr.org>  
Date: Wed, 21 Jun 2000 14:24:52 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92232-2000.06.21-13.30.10--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 6/21/00 2:13 PM Ian Wade (Ian.Wade@care4free.net) wrote:

```
>>>That's fine, but there's more to it than that. If you're listening to an
>>>IGate, you could receive many more bytes than 256:
>>>
>>No, you can't. APRServe and aprsd limit the packets they send to just
>>under 256 bytes.
>>
>
>*Plus* the header, or *including* the header?
>
Total length from LF to LF
```

---

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## 1022. [aprssig] RE: Monitoring on Port 14502

From: Steve Dimse <k4hg@tapr.org>  
Date: Wed, 21 Jun 2000 14:30:08 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92233-2000.06.21-13.34.14--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 6/21/00 2:10 PM Dale Heatherington (dale@wa4dsy.net) wrote:

```
>Well, not exactly. Versions of aprsd up through 2.1.1 limited total packet
>length to 1024 bytes including CR-LF. Early pre-release aprsd212 limited
>them to 256. Then, upon realizing how long they could get I increased the
>buffers to 400 bytes in pre-release 4 and up. Thats what they will be in
>final version
>2.1.2 unless there are objections. This is TOTAL packet length, not just
>the data part.
>
>
>Yea, actually I do, that must be why the primary and secondary servers
>are not playing well together. There is no reason for people to have 8
>digis in their path, but even if they do that leaves abt 150 bytes for
>the data portion, which is more than enough...
```

Steve K4HG

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## 1023. [aprssig] Linux and APRS

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Wed, 21 Jun 2000 13:31:24 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92234-2000.06.21-13.34.59--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I'm currently trying to install Linux on a 5x86-133 AMD motherboard (basically an overclocked 486). This system is not a pentium class system but clocks in at about a P-75. Anyhow, I can not get Mandrake 7.1 to install on it. First, I was having problems with the 6X 4-disk IDE CD changer on it - the boot disk just wouldn't deal with it. That's been swapped with a single CD tray-type CD ROM and now it starts the boot process.

Second hurdle, the Mandrake install wants over 900 MB of file space to install! Knocking off the extra packages still makes it huge at about 600 MB! So much for your compact OS. The next snag, Mandrake locks up during the install - and it HARD LOCKS. Going to their web site it says their distro REQUIRES a Pentium Class computer to install to. So much for Mandrake...

Here's what I have. A 486-133 mhz MBD with a standard Soundblaster 16 soundcard and a Kingston NIC. System only has a 1.2 GB hard drive and 32 MB of RAM. It also has a older Trident PCI video card. I'd like to be able to install Linux on this box as a test bed for APRS, to do a little

web browsing, and maybe play an MP3 or two and to connect it to my network. What Distro of Linux would you Linux-types recommend for an install on this system?

And just as an added zinger: If Linux is so great, how come it takes such machinations to install (or to fail to install) on computers? I've had just about every release of Windows installed on this box and they all went in flawlessly. It started out with Win3.11 and had Win98SE on it before I wiped the drive clean and started the Mandrake install. All of them worked with the 4-changer CD ROM and none of them REQUIRED 600 MB+ of drive space for a minimum installation!

73,

Mark  
KC7BXS

---

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## 1024. [aprssid] Premptive Digipeating

From: "Mykle Raymond" <mykle@pci-net.com>  
Date: Wed, 21 Jun 2000 11:51:57 -0700  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-92240-2000.06.21-13.53.03--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

This method can simplify our common digipeater paths, but requires that an APRS digipeat protocol be defined with a "small" change.

"RELAY,WIDE" requires a RELAY station to repeat the packet before the WIDE. So if a RELAY doesn't hear the packet, but the WIDE does, it has to ignore the packet. All WIDE's are not automatically also RELAY's, for whatever reason. So this generic path doesn't work in some areas, but you really want to avoid having to tweak your path all of the time ;-)

A variation of Bob's idea may be worth some thought: Each digi continues to set the "digipeated" bit (displays the \* after it's call), and only those digis that are specified AFTER the \* should repeat the packet.

With the same "RELAY,WIDE" example, if no RELAY is available, the WIDE sends a "RELAY,WIDE\*" and the RELAY should be ignored (think of the QRM if they didn't!).

However, use specific callsigns for another example path:  
"N7AAA,N7BBB,N7CCC".  
If N7AAA doesn't hear the packet, and N7BBB does and sez:  
"N7AAA,N7BBB\*,N7CCC".  
Then N7AAA should not repeat the packet even if it hears it this time, and N7CCC should repeat the packet if it hears it, using: "N7AAA,N7BBB,N7CCC\*".

The packet digipeater protocol works best for fixed stations, as is typical with "connected" packet stations. An APRS protocol that uses Bob's Premptive Digipeating rule (or a variation on it) will require fewer tracker path changes.

Thanks for dusting off this "old" idea, Bob! Just what Henk is asking for.

73 de Mykle N7JZT  
Tucson, AZ

On Tue, 20 Jun 2000, Bob Bruninga wrote:

> We could take another look at "preemptive" digipeating where the DIGI list  
> is not viewed as sequential, but as a list of all digis that should repeat  
> the packet only once. This was one of my earliest ideas back in 1992, but  
> I abandoned it in favor of WIDEN-N. I wonder if it has any application  
> for the "local" user. And will it work in the presence of "mixed  
> firmware" digis? Might be worth studying again in the new context. I  
> just haven't thought much about it in a long time...

On Tue, 20 Jun 2000, Henk de Groot (EMN) wrote:

>> I don't know how many of you actually looked at it, but I wonder if  
>> anybody has a better solution to define how to digipeat a certain

>> frame. So I'm looking for new ideas. How to make better descriptions  
>> of rules for the digipeating process which are easier to understand  
>> and handle by the user.

---

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## 1025. [aprssig] Re: Linux and APRS

From: mulveyr@iname.com  
Date: Wed, 21 Jun 2000 15:02:03 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: aprssig@lists.tapr.org  
Message-ID: <LYR842-92241-2000.06.21-14.05.59--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>  
> I'm currently trying to install Linux on a 5x86-133 AMD motherboard  
> (basically an overclocked 486). This system is not a pentium class system  
> Going to their web site it says their  
> distro REQUIRES a Pentium Class computer to install to. So much for  
> Mandrake...

>  
Well, yes, but since the entire point of Mandrake is that is  
is optimized for Pentium machines, that shouldn't be unexpected.

> Here's what I have. A 486-133 mhz MBD with a standard Soundblaster 16  
> soundcard and a Kingston NIC. System only has a 1.2 GB hard drive and 32  
> MB of RAM. It also has a older Trident PCI video card. I'd like to be  
> able to install Linux on this box as a test bed for APRS, to do a little  
> web browsing, and maybe play an MP3 or two and to connect it to my  
> network. What Distro of Linux would you Linux-types recommend for an  
> install on this system?  
>

RedHat is extremely easy to install. I understand that Corel is  
even better, although I've never personally used it. The system  
will be slightly underpowered for what you want to do - netscape, in  
particular, is a memory pig on any platform.

> And just as an added zinger: If Linux is so great, how come it takes such  
> machinations to install (or to fail to install) on computers? I've had  
> just about every release of Windows installed on this box and they all went  
> in flawlessly. It started out with Win3.11 and had Win98SE on it before I  
> wiped the drive clean and started the Mandrake install. All of them  
> worked with the 4-changer CD ROM and none of them REQUIRED 600 MB+ of drive  
> space for a minimum installation!

You're confusing "Ease of installation" with "Power". My current linux  
AMPR.ORG router is running on a 386 with 24MB of memory and a 110MB hard  
drive - and there is about 50MB free. You don't have to install  
everything if you don't want to. The router has been up for over  
250 days, while serving multiple 56K wa4dsy modems, two 1200bps  
AX.25 modems, acting as a firewall, an APRS IGATE, and a web server.  
Let's see Windows match that. :-)

Personally, I find Linux \*much\* easier to install than Windows.  
I don't have to reboot half a dozen times for no reason, all of the  
drivers I need are in one centralized place - the kernel tree - and  
I can configure the box the way it should be, rather than the  
way the OS manufacturer wants it to be.

- Rich

---

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## 1026. [aprssig] Re: 2.4.7 and weather objects/warnings... and IGATES

From: "Dick Stanich" <dstanic@c2i2.com>  
Date: Wed, 21 Jun 2000 14:4:41  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Message-ID: <LYR842-92243-2000.06.21-14.08.24--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

Winaprs does not feed what was sent, back to the server. It think what is being seen are the repeats from local digis.

Jim's original question or thought was that v2.4.7. could not re-broadcast his stations.txt. So far, what we have determined, is that it does for everyone else. If the PIL codes are there, it should work. He says it works on his 2.4.3. but not on 2.4.7.

This chain has brought out some interesting points. It may be difficult to find Jim's answer, without knowing how he has things set up.

I guess my point is... that if most are not having that specific problem, does it mean the program is bad? I don't think so. I wouldn't trash bucket a program before I was absolutely sure I didn't miss something. As great as they were, we don't drive Model T's anymore.

Some hams are still running versions older than 2.2.7. Trying asking them why.

Dick, KB7ZVA

---

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## 1027. [aprssid] Re: 2.4.7 and weather objects/warnings... and IGATES

From: Ray Vaughan <ray@rayvaughan.com>  
Date: Wed, 21 Jun 2000 15:11:10 -0400  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Cc: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-92244-2000.06.21-14.14.56--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

At 02:14 PM 6/21/00 -0400, you wrote:  
> > Until I hear this bug is fixed, or there's some limit on how often WinAPRS  
> > sends a duplicate position report from Internet -> RF, I'll wait.  
>  
> I'm wondering why there are multiple stations IGating from an area. That  
> could really be your problem.

I'm sort of acting as the back up, the primary could come back at any time. There's also one, I think, just beyond dependable communication range. So what happens when the band opens? It would be bad to assume that all I-Gates are always out of range of each other. For reliability, in fact, there should be multiple I-Gates in any area with some overlap designed in, just as we expect Digis to be.

Thanks to cable modems and ADSL, I-Gates are becoming more and more feasible. I think we're going to see more home I-Gates versus just colleges and large facilities where there's a dedicated T1. If this growth is going to present a problem later, then maybe we need to address it now.

Thinking out loud...

Maybe I-gates need something like "I just got a packet on the VHF port. I heard the exact same thing on the Internet feed less than 10 minutes ago. I'm not going to send it to the net again" That doesn't address simultaneous reception, but might help a bit.

Or maybe I-Gates should be slaves of digis. It won't send something to the net unless it hears it via it's master digi. That could help when bands go long. btw, I'm not talking about hardwired, that will be impossible at most high digis.

It's either some solution at the I-Gate, or the filtering would have to be done at the server end... and that sounds difficult with the redundant system we're now lucky to have.

---

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## 1028. [aprssid] RE: Monitoring on Port 14502

From: Jeff King <jeff@aerodata.net>  
Date: Wed, 21 Jun 2000 15:26:39 -0400  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssid@lists.tapr.org>  
Message-ID: <LYR842-92246-2000.06.21-14.28.03--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain



Ian Wade wrote:

>  
> Running total = 382 + 2 = 384 bytes.

This, as I'm sure you are well aware, was I believe the minimum recommended for the DOS version of NOS for the async buffer length (and you could go higher). For the exact same reasons you described, NOS was this length. APRS is the same. I believe Dale mentioned he was using 400, so that should work fine.

-Jeff

---

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## 1029. [aprssig] RE: Linux and APRS

From: Tom Warren <twarren@pccweb.com>  
Date: Wed, 21 Jun 2000 14:21:43 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92247-2000.06.21-14.28.37--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> -----Original Message-----  
> From: Mark Fellhauer [mailto:sparkfel@primenet.com]  
> Sent: Wednesday, June 21, 2000 1:31 PM  
> To: TAPR APRS Special Interest Group  
> Subject: [aprssig] Linux and APRS  
>  
>  
>  
> I'm currently trying to install Linux on a 5x86-133 AMD motherboard  
> (basically an overclocked 486). This system is not a pentium  
> class system  
> but clocks in at about a P-75. Anyhow, I can not get  
> Mandrake 7.1 to  
> install on it. First, I was having problems with the 6X  
> 4-disk IDE CD  
> changer on it - the boot disk just wouldn't deal with it.  
> That's been  
> swapped with a single CD tray-type CD ROM and now it starts the boot  
> process.  
>  
> Second hurdle, the Mandrake install wants over 900 MB of file  
> space to  
> install! Knocking off the extra packages still makes it huge  
> at about 600  
> MB! So much for your compact OS. The next snag, Mandrake  
> locks up during  
> the install - and it HARD LOCKS. Going to their web site it  
> says their  
> distro REQUIRES a Pentium Class computer to install to. So much for  
> Mandrake...  
>

Linux Mandrake was designed for a Pentium class machine. I would recommend in your case Redhat Linux. ([www.redhat.com](http://www.redhat.com))

> Here's what I have. A 486-133 mhz MBD with a standard  
> Soundblaster 16  
> soundcard and a Kingston NIC. System only has a 1.2 GB hard  
> drive and 32  
> MB of RAM. It also has a older Trident PCI video card. I'd  
> like to be  
> able to install Linux on this box as a test bed for APRS, to  
> do a little  
> web browsing, and maybe play an MP3 or two and to connect it to my  
> network. What Distro of Linux would you Linux-types  
> recommend for an  
> install on this system?  
>  
> And just as an added zinger: If Linux is so great, how come  
> it takes such  
> machinations to install (or to fail to install) on computers?

It doesn't the Linux Kernel can reside on a 720k floppy and still have room

for applications. Mind you these aren't vary large apps. they are small applications like vim or elm.

- > I've had
- > just about every release of Windows installed on this box and
- > they all went
- > in flawlessly. It started out with Win3.11 and had Win98SE
- > on it before I
- > wiped the drive clean and started the Mandrake install. All of them
- > worked with the 4-changer CD ROM and none of them REQUIRED
- > 600 MB+ of drive
- > space for a minimum installation!

Linux Mandrake was designed to be easy to use and install. To achieve this Mandrake added a lot of bulk to the OS. Redhat on the other hand which I think is just as simple to install doesn't have this bulk. (Bloat?) Typical uptimes I have seen for Linux have been 25 to 30 days. The only reason they haven't gone long is because of new kernels or bug patches. Can you say you have seen this with Windows 98 or 3.11?

73's

Tom KC8DHX

---

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### 1030. [aprssig] Re: Premptive Digipeating

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Wed, 21 Jun 2000 16:05:58 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92254-2000.06.21-15.09.37--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Actually PREEMPTIVE digipeating was assumed to always use FIXED callsigns in the path list. Not any of the GENERIC calls. Obviously putting RELAY in such a list would be a disaster if all the RELAYS did preemptive digipeating too... But.. etc...

bob On Wed, 21 Jun 2000, Mykle Raymond wrote:

- > This method can simplify our common digipeater paths, but requires that
- > an APRS digipeat protocol be defined with a "small" change.
- >
- > "RELAY,WIDE" requires a RELAY station to repeat the packet before the WIDE.
- > So if a RELAY doesn't hear the packet, but the WIDE does, it has to ignore
- > the packet. All WIDE's are not automatically also RELAY's, for whatever
- > reason. So this generic path doesn't work in some areas, but you really
- > want to avoid having to tweak your path all of the time ;-)
- >
- > A variation of Bob's idea may be worth some thought: Each digi continues to
- > set the "digipeated" bit (displays the \* after it's call), and only those
- > digis that are specified AFTER the \* should repeat the packet.
- >
- > With the same "RELAY,WIDE" example, if no RELAY is available, the WIDE
- > sends a "RELAY,WIDE\*" and the RELAY should be ignored (think of the QRM if
- > they didn't!).
- >
- > However, use specific callsigns for another example path:
- > "N7AAA,N7BBB,N7CCC".
- > If N7AAA doesn't hear the packet, and N7BBB does and sez:
- > "N7AAA,N7BBB\*,N7CCC".
- > Then N7AAA should not repeat the packet even if it hears it this time, and
- > N7CCC should repeat the packet if it hears it, using: "N7AAA,N7BBB,N7CCC\*".
- >
- > The packet digipeater protocol works best for fixed stations, as is typical
- > with "connected" packet stations. An APRS protocol that uses Bob's
- > Premptive
- > Digipeating rule (or a variation on it) will require fewer tracker path
- > changes.
- >
- > Thanks for dusting off this "old" idea, Bob! Just what Henk is asking for.
- >
- > 73 de Mykle N7JZT
- > Tucson, AZ
- >
- >

> On Tue, 20 Jun 2000, Bob Bruninga wrote:  
>  
> > We could take another look at "preemptive" digipeating where the DIGI list  
> > is not viewed as sequential, but as a list of all digis that should repeat  
> > the packet only once. This was one of my earliest ideas back in 1992, but  
> > I abandoned it in favor of WIDEN-N. I wonder if it has any application  
> > for the "local" user. And will it work in the presence of "mixed  
> > firmware" digis? Might be worth studying again in the new context. I  
> > just haven't thought much about it in a long time...  
>  
> On Tue, 20 Jun 2000, Henk de Groot (EMN) wrote:  
>  
> > I don't know how many of you actually looked at it, but I wonder if  
> > anybody has a better solution to define how to digipeat a certain  
> > frame. So I'm looking for new ideas. How to make better descriptions  
> > of rules for the digipeating process which are easier to understand  
> > and handle by the user.  
>  
>  
>  
>  
> ---  
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>

APRSDos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org  
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060  
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>  
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>  
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

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## 1031. [aprssig] APRS/GPS Stuff

From: "Sam Guccione" <sguccion@outland.dtcc.edu>  
Date: Wed, 21 Jun 2000 16:06:59 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92255-2000.06.21-15.11.03--lyris.aprssig#tapr.org@lists.tapr.org>  
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Still cleaning house on equipment. See below:

> MIC-E assembled \$90  
>  
> Motorola Oncore GPS board with McKinney interface \$185  
>  
> Trimble active GPS magnetic mount hockey puck style antenna \$50

|                      |                                        |
|----------------------|----------------------------------------|
| Dr. Sam Guccione     | Delaware Technical & Community College |
| Chair Engineering    | Terry Campus                           |
| Technologies/Physics | 1832 North duPont Highway              |
| 302-741-2802         | Dover, DE 19901                        |
| ARS K3BY             | 302-741-2837 Fax                       |

Delaware Rockets For Schools Payload Page  
<http://dtelunix.dtcc.edu/rocket>

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## 1032. [aprssig] Re:OpenSource

From: Hamish Moffatt <hamish@cloud.net.au>  
Date: Thu, 22 Jun 2000 08:15:16 +1000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: aprssig@tapr.org  
Message-ID: <LYR842-92262-2000.06.21-17.19.05--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Wed, Jun 21, 2000 at 09:08:42AM -0700, Brendan Keyport wrote:  
> I've tried 'em. They don't even come close to the power that closed  
> source OSes come. Nowhere near, and 30 million more exploits too.

Nonsense, but you knew that already.

For one thing, without the source you can't do a security audit.  
There may be dozens of unfound exploits in Solaris, for example.  
Exploits are more likely to be found in Linux and \*BSD because  
the source is public. They're fixed in the same time frame as  
any commercial vendor too.

> In any case, OpenSource has it's major drawbacks - most of which are  
> not correctable, and, like I said earlier, the development "Team"  
> turns whiny rather quickly.

Open source's biggest problem is uninformed people who spread  
FUD (fear, uncertainty, and doubt). You seem to be one of those people.

The above comment demonstrates that you have never worked  
in an open source development team. Debian GNU/Linux ([www.debian.org](http://www.debian.org))  
has 300-400 registered developers and the quality of the product  
is unmatched.

Hamish

--  
Hamish Moffatt VK3SB <[hamish@debian.org](mailto:hamish@debian.org)> <[hamish@cloud.net.au](mailto:hamish@cloud.net.au)>

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### 1033. [aprssig] Re:OpenSource

From: Roger Barker <[roger@peaksys.co.uk](mailto:roger@peaksys.co.uk)>  
Date: Thu, 22 Jun 2000 00:51:50 +0100  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-92270-2000.06.21-18.55.29--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In article <LYR1643-92262-2000.06.21-17.19.05--ROGER#PEAKSYS.CO.UK@lists.  
.tapr.org>, Hamish Moffatt <[hamish@cloud.net.au](mailto:hamish@cloud.net.au)> writes  
[snip]  
>Open source's biggest problem is uninformed people who spread  
>FUD (fear, uncertainty, and doubt). You seem to be one of those people.  
[snip]

No, open source's biggest problem is that the concept is an ideological  
one, and it is "pushed" in the same way as other ideologies/religions.  
That can be a severe irritant to those who don't support the ideology...

--  
Roger Barker, G4IDE - [roger@peaksys.co.uk](mailto:roger@peaksys.co.uk)  
For UI-View go to - <http://www.packetradio.org.uk>  
For WinPack go to - <http://www.peaksys.co.uk>

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### 1034. [aprssig] Re: Linux and APRS

From: Guy Story <[kc5goi@tapr.org](mailto:kc5goi@tapr.org)>  
Date: Wed, 21 Jun 2000 19:03:48 -0500 (CDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: [aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)  
Message-ID: <LYR842-92274-2000.06.21-19.07.28--lyris.aprssig#tapr.org@lists.tapr.org>  
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Mark, I was trying to install 7.0 on my AMDK6-2 500 and it craps out  
too. I went back to 6.5 and used the "Red-Hat" gui for the install. I  
also ran into troubles if I scaled back the packages too much. I think  
this is why I can not get Xastir to compile and run on it. I can run the  
XAPRS 0.0.8 after I installed the LessTif packages from the Red Hat  
site. If I had not spent money on getting Madrake packages I would try  
out Debian or Suse. I have my system more or less the way I want it but I  
am not exactly thrilled, things could be worse though.

73,

Guy Story  
KC5G0I  
kc5goi@tapr.org  
http://www.kc5goi.net

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### 1035. [aprssig] NMEA Format?

From: "Paul M. Spatzek" <spatzek@chugach.net>  
Date: Wed, 21 Jun 2000 16:11:06 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92276-2000.06.21-19.16.38--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Just a quick question for the experts. I've got a new Magellan I'm setting up for APRS (315), and when setting up the NMEA output, I'm given the choice of three NMEA modes.

1. V1.5 APA
2. v1.5 XTE
3. v2.1 GSA

Which one do I use? I can find no reference to this setting in WinAprs.

Thanks in advance

de Paul Spatzek WL7BF

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### 1036. [aprssig] Re:OpenSource

From: Jeff King <jeff@aerodata.net>  
Date: Wed, 21 Jun 2000 20:20:30 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92278-2000.06.21-19.21.57--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Roger Barker wrote:

> In article <LYR1643-92262-2000.06.21-17.19.05--ROGER#PEAKSYS.CO.UK@lists  
> .tapr.org>, Hamish Moffatt <hamish@cloud.net.au> writes  
> [snip]  
> >Open source's biggest problem is uninformed people who spread  
> >FUD (fear, uncertainty, and doubt). You seem to be one of those people.  
> [snip]  
>  
> No, open source's biggest problem is that the concept is an ideological  
> one, and it is "pushed" in the same way as other ideologies/religions.  
> That can be a severe irritant to those who don't support the ideology...

While its very clear to me its a irritant to you Roger, who exactly is pushing it on you? You made it clear your equate the Open Source movement to the work of Satan (or at least that was your analogy of hell), so I'm finding it hard to take you seriously.

Please note this is coming from a person that has "pushed" UI-View on this SIG before it was widely known in North America. I don't have any axe to grind with you, but your comments do appear to give some credit to what Hamish was saying, especially in the context of the discussion Hamish started.

Don't like it, don't do it. I just don't see anyone pushing it on you.

73

Jeff

---

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### 1037. [aprssig] Mandrake 7.0/Linux

From: Guy Story <kc5goi@tapr.org>  
Date: Wed, 21 Jun 2000 19:32:00 -0500 (CDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92279-2000.06.21-19.35.41--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I was double checking my requirements on my Mandrake 6.5 and 7.0 packages. It clearly calls out, Pentium I, MMX, Pro, II Celeron, Pentium III along with AMD K6/K6-2 and Cyrix 6x86/M-II. Not a single mention about the older 486 clones. This in no means says the a 486 can not be used but I beleive that these requirements are partially written so the xwindow desktops can run reasonably. It asks for 16 min and suggests 64 if xwindows is used. My AMD K6-2 500 can run all day long with no greif and I am fixing to install Star Office on it and then let it run for a undetermined time frame. My aprsD server is on a Pentium MMX 200 with Mandrake 6.1, she has been up for weeks at a time with only aprsD running, handling the dialup for my home lan and acting as a file server. I am running XAPRS from time to time to give Mark feedback and except for a few bugs that Mark has seen as well, my 500 runs fine.

73,

Guy Story  
KC5G0I  
kc5goi@tapr.org  
<http://www.kc5goi.net>

---

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### 1038. [aprssig] Re: NMEA Format?

From: John <johnrwil@ozemail.com.au>  
Date: Thu, 22 Jun 2000 10:32:23 +0930  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92292-2000.06.21-20.04.25--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Paul

I use option 3 on my 315.

This will send RMC and GGA nmea sentences. Which I believe are the 2 most useful. These will send position, course, speed and altitude.

On Thu, 22 Jun 2000, you wrote:

> Just a quick question for the experts. I've got a new Magellan I'm  
> setting up for APRS (315), and when setting up the NMEA output, I'm  
> given the choice of three NMEA modes.  
>     1. V1.5 APA  
>     2. v1.5 XTE  
>     3. v2.1 GSA  
>  
> Which one do I use? I can find no reference to this setting in WinAprs.  
>  
> Thanks in advance  
>  
> de Paul Spatzek WL7BF  
>  
> ---

--  
Best Regards

John Williams  
VK5ZTY

---

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### 1039. [aprssig] Re: 2.4.7 and weather objects/warnings... and IGATES

From: "Dick Stanich" <dstanic@c2i2.com>  
Date: Wed, 21 Jun 2000 20:16:23  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92294-2000.06.21-20.19.58--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> It's either some solution at the I-Gate, or the filtering would have to be done at the server end...  
and that sounds difficult with the redundant system we're now lucky to have.

Are we asking for too much? You bet! Digis offer 'garbage in, garbage out'.  
Currently I operate an Igate 'Garbage in, nothing out'. Afilter is a  
program that Bill Diaz developed for those reasons you are talking about.  
If Igates cleanly filter data before going RF or to the servers, that's a  
plus. Trapping errors at a local level, before they enter the server  
stream, are much easier to deal with. Error logs show the source of all  
errors. Also, its much easier to help folks that are local to an Igate vs  
an email to someone you don't know half way across the country.

It would be nice to see other programs with some level of error checking.  
Look at this summary data to see why its necessary:

Session Error log time = 6/21/00 17:25:27 2757.88 minutes elapsed  
Errors since last scheduled report = 329 elapsed 60.01 minutes  
Hdr Errors since last scheduled report = 34  
Session errors = 20738  
Packets processed this session = 718938 @ 261 / minute  
Bytes processed this session = 62062044 @ 375 / second  
Packets passed to client since last scheduled report = 3063 @ 1 / minute  
Bytes passed to client since last scheduled report = 271709 75 / Second  
Dick, KB7ZVA

---

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## 1040. [aprssig] Re: 2.4.7 and weather objects/warnings...

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Wed, 21 Jun 2000 19:28:21 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92299-2000.06.21-20.38.35--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 01:56 PM 6/21/00 -0400, Dennis Hudson, N2LBT blasted the following out  
into the ether:  
><snip>  
> > I have been, until recently, been transmitting the warnings in my  
> > local time. I adjust the time manually to account for a warning over in  
> > the Central time zone...  
> >  
> > Any HELPFUL suggestions would be appreciated,  
> > Earl  
>  
> Secondly we have the original NWS alerts that originate from a Win/Mac/Xaprs  
> á la Sproul software package which I think Earl is talking about.

Quite right -- I currently use WinAPRS as my program of choice,  
although I expect I will be moving to APRSdos soon, as I set up a dedicated  
486SX/33 for just that reason.

7 3  
Earl

Earl Needham, KD5XB      mailto:KD5XB@AMSAT.ORG  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)  
PGP Key ID 0xC3FDA66E

Pet peeve: breath is a noun, breathe is a verb (When you take a breath,  
you breathe...)

---

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## 1041. [aprssig] Band opening???

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Wed, 21 Jun 2000 20:00:36 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92303-2000.06.21-21.06.13--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

For quite some time now, I have suspected that one of the nearby IGATES might be relaying stations from a LONG ways off, and it isn't showing up in the path. I have no way of knowing.

I have rarely seen/heard propagation such as is suggested below. The last time I saw something like it was around 1985 or so, when I was stationed in south Georgia and suddenly packet was roaring with stations in the DFW area.

So -- take a look at these, copied in Clovis, New Mexico today. All are over 1000 miles, and all appear to have an RF-only path of around 3 hops.

Anybody else see anything like it today?

7 3  
Earl

---

KF4AJQ-9>3PUQ2R,WA5IHL-11\*,WIDE3:'o1Fm^h>/]"4M}kf4ajq@varc.net/www.varc.net  
KF4AJQ-9>3PUQ0R,WA5IHL-11\*,WIDE3:'o2m?~>/]"40}

KF4AJQ-9>3PUQ2R,WA5IHL-11\*,WIDE3:'o1Fm^h>/]"4M}kf4ajq@varc.net/www.varc.net  
KF4AJQ-9>3PUQ0R,WA5IHL-11\*,WIDE3:'o2m?~>/]"40}

KF4AJQ-9>3PUQ2R,WA5IHL-11\*,WIDE3:'o1Fm^h>/]"4M}kf4ajq@varc.net/www.varc.net  
KF4AJQ-9>3PUQ0R,WA5IHL-11\*,WIDE3:'o2m?~>/]"40}

N1NFC-1>APRS,WA5IHL-11\*,WIDE4-2:!3045.78NN08136.66W#PHG5490 CCARS WideN-N  
Digi Kingsland, GA

AA4M0-1>APRS,AA4QI-1,WA5IHL-11\*!:3023.50N/08139.88W#phg6360/relay

KD4MWO-14>APRS,AA4QI-1,WA5IHL-11\*:\$GPRMC,005820,A,3024.8542,N,08139.1313,W,0.457,71.4,220600,5.0,W\*43  
KD4MWO-14>APRS,AA4QI-1,WA5IHL-11\*:\$GPRMC,010420,A,3024.8293,N,08139.1343,W,0.000,0.0,220600,5.0,W\*71  
KD4MWO-14>APRS,AA4QI-1,WA5IHL-11\*:\$GPRMC,010620,A,3024.8293,N,08139.1343,W,0.000,0.0,220600,5.0,W\*73  
KD4MWO-14>APRS,AA4QI-1,WA5IHL-11\*:\$GPRMC,011220,A,3024.8293,N,08139.1323,W,0.000,0.0,220600,5.0,W\*70

KF4FGE-1>APW228,WA5IHL-11\*,WIDE3-2:=3019.88N/08139.60W#PHG5430/Duval County  
EOC -FLDUVJACKSONV-228-<530>

KF4FGE-1>APW228,WA5IHL-11\*,WIDE3-2:=3019.88N/08139.60W#PHG5430/Duval County  
EOC -FLDUVJACKSONV-228-<530>

AE4YB>APW246,WA5IHL-11\*,WIDE3-1:=3019.43N/08127.90W#PHG2196/Atlantic Girvin  
-FLDUVJAX -246-<530>

AA4QI-4>APRS,AA4QI-1,WA5IHL-11\*:\$ULTW00000000034B0000----000086A0000102C900A  
C04F600000000  
AA4QI-4>APRS,AA4QI-1,WA5IHL-11\*!:3018.47N/08123.89W\_PHG 3360/RELAY  
AA4QI-4>APRS,AA4QI-1,WA5IHL-11\*:\$ULTW00000000034B0000----000086A0000102C700A  
C050000000000

W4IZ-1>APRS,WA5IHL-11\*,TRACE3-2:!2952.47NN08125.05W#PHG6460 W/T/R  
NOFARS/KF4MX ST AUG, FL jimmor@aug.com

KE4KUR-3>APRS,W4IZ-1,AA4QI-1,WA5IHL-11\*!:3259.63NN08016.20W#PHG6550  
WIDEN-N SUMMERVILLE, SC

W1GRE-1>APW245,W1GRE,WA5IHL-11\*,WIDE3,GATE:=3251.51N/07958.85W#PHG2030/WinAP  
RS 2.4.5<Gregg>We do Rx's right -SCCHAN CHARLE-245-<530>

WA4USN-5>APRS,W4IZ-1,WA5IHL-11\*!:3247.46NN07954.49W#PHG5440 WIDEN-N  
CHARLESTON, SC  
WA4USN-5>APRS,W4IZ-1,WA5IHL-11\*,WIDE3-3!:3247.46NN07954.49W#PHG5440 WIDEN-N  
CHARLESTON, SC



N4TRN>APR846,WA5IHL-11\*,WIDE3:=2837.29N/08119.00W-000/000/Keth, Winter Park, FL

KG4EGV>APW245,WA5IHL-11\*,WIDE3:=2829.28N/08117.90W#PHG7130/WinAPRS 2.4.5 -FLORAORLANDO -245-<520>

W4NHV-9>BEACON,W4IZ-1,AA4QI-1,WA5IHL-11\*:  
W4NHV-9>APRS,W4IZ-1,AA4QI-1,WA5IHL-11\*:!3453.15NT07904.22W#PHG9690 W4NHV-9 WIDE DIGI LUMBER BRIDGE NC.

N2XL>ST4P1X,W4NHV-9,W4IZ-1,WA5IHL-11\*:'kX6l ,>/'4E}

AD4TZ>AP0920,WA5IHL-11\*,WIDE4-1,WIDE,GATE:>180144z [0920]\*APRS+SA de Eddy in Surfside Beach, SC FM03M0 [ad4tz@qsl.net]  
AD4TZ>AP0920,WA5IHL-11\*,WIDE4-2,WIDE,GATE:=3336.48N\07858.35W#PHG2240 RELAY in Surfside Beach, SC FM03M0  
AD4TZ>AP0920,WA5IHL-11\*,WIDE4-1,WIDE,GATE:=3336.48N\07858.35W#PHG2240 RELAY in Surfside Beach, SC FM03M0

W4RDU-5>APRS,W4NHV-9,W4GS-5,W4IZ-1,AA4QI-1,WA5IHL-11\*,TRACE5:=3546.76NT07840 .50W#PHG6460/W-R-Trace Digi in Raleigh,NC

K4ROK>BEACON,WA5IHL-11\*,WIDE6-4,TRACE3-3:!3533.01NN07736.02W\_PHG7630 W-R-T WX DIGI PITT COUNTY NC ARES  
K4ROK>BEACON,WA5IHL-11\*,WIDE6-3,TRACE3-3:!3533.01NN07736.02W\_PHG7630 W-R-T WX DIGI PITT COUNTY NC ARES  
K4ROK>APRS,WA5IHL-11\*,WIDE6-3:!!000000620315009027B70331-----00AC04F90090 0000

And the following, judging from the callbook:

KL7NL>APR830,WA5IHL-11\*,WIDE3::K4RRZ :ack12  
N1NFC>APW247,WA5IHL-11\*,WIDE4-1:>312114 n1nfc@eagnet.com ICQ#944831 TCP/IP on-line!  
N4JTH-3>ID,WIDE,W4IZ-1,WA5IHL-11\*:N4JTH-3/R RELAY/D N4JTH-1/B WIDE/N  
N7GZT-1>APRS,KE4KUR-3,W4IZ-1,WA5IHL-11\*:!325162.62NT07959.17W#PHG5440 Charleston,SC EOC  
NA4V>APW247,WA5IHL-11\*,WIDE3-1:\_06220101c191s005g007t080r000p000h73b1015 0wRSW  
NA4V-3>APRDA4,WA5IHL-11\*,WIDE3-1::S035  
\*220103z4943.34N\08129.19W5193/999/436.291-5/145.825+8/R=02136/mode-B  
W1GRE>APW245,KE4KUR-3,WA4USN-5,WA5IHL-11\*,WIDE3-1:}KC5VKB>APRS,TCP/IP,W1GRE\*:  
:AA4QI-4 :Hello from Lubbock Tx DM93{045  
W4EZR>APR842,W4NHV-9,WA5IHL-11\*,WIDE3-1::WB4IUY :fine Dave looking  
foreward to seeing you on field day ...gn...{17  
W4EZR>APR842,W4NHV-9,WA5IHL-11\*,WIDE3-1::K4RRZ :Dave says will be here  
for field day ...good on nodes...{18  
W4IZ-3>APRS,AA4QI-1,WA5IHL-11\*,WIDE:\$ULTW000000003001E56---000000000000---  
-00AD04B500120000  
WB4IUY>APR810,WA5IHL-11\*,WIDE6-4:>172209z wb4iuy@wb4iuy.#rtp.nc.usa.noam  
WB4IUY>APR810,WA5IHL-11\*,WIDE6-4::W4EZR :ack17  
WB4IUY>APR810,WA5IHL-11\*,WIDE6-3:N4KZL-12 :testing for ack...{0

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## 1042. [aprssig] Re: Mandrake 7.0/Linux

From: "Aaron Morrison" <ae4ko@amsat.org>  
Date: Wed, 21 Jun 2000 22:48:19 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92305-2000.06.21-21.52.00--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 21 Jun 2000, at 19:32, Guy Story wrote:

> I was double checking my requirements on my Mandrake 6.5 and 7.0  
> packages. It clearly calls out, Pentium I, MMX, Pro, II Celeron, Pentium  
> III along with AMD K6/K6-2 and Cyrix 6x86/M-II. Not a single mention  
> about the older 486 clones. This in no means says the a 486 can not be  
> used but I beleive that these requirements are partially written so the  
> xwindow desktops can run reasonably.  
> 73,  
> Guy Story

The only thing about Mandrake wanting Pentiums is that all of the binaries were compiled with Pentium instructions which, for most

people, gives a slight performance boost. Unless you want to recompile everything (which is possible, just a pain), that pretty much keeps Mandrake in the Pentium realm.

I highly recommend Linux-Mandrake. IMHO, it provides a "cleaner" interface for new users, has a very good installer (with a couple gotcha's that are easy to fix), and since it is based on RedHat a very good distribution for advanced users as well.

For everything else (486's, etc.), I still like Red Hat.

And to keep things a bit more on-topic, I still intend to get Linux installed on my Sun IPX station so I can test Xaprs and XASTIR, but I just can't seem to get around a SCSI bus reset during installation... Anyone have any ideas? (respond off the list, please.)

73  
Aaron

---  
Random Quote:

POW: "Pwitty Obvious Weelly" said Wabbit!

---  
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## 1043. [aprssig] Re:OpenSource

From: Gerry Creager <gerry@cs.tamu.edu>  
Date: Wed, 21 Jun 2000 22:05:41 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92307-2000.06.21-22.10.41--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Roger Barker wrote:

>  
> In article <LYR1643-92262-2000.06.21-17.19.05--ROGER#PEAKSYS.CO.UK@lists  
> .tapr.org>, Hamish Moffatt <hamish@cloud.net.au> writes  
> [snip]  
> >Open source's biggest problem is uninformed people who spread  
> >FUD (fear, uncertainty, and doubt). You seem to be one of those people.  
> [snip]  
>  
> No, open source's biggest problem is that the concept is an ideological  
> one, and it is "pushed" in the same way as other ideologies/religions.  
> That can be a severe irritant to those who don't support the ideology...

But without proponents for the ideology, where would we be? I've benefitted tremendously from open source code here at the University and in my work. The authors are credited every time I report my work in presentation or writing. I collaborate with them on changes, modifications and upgrades. It's safe to say that I've had a fairly large effect on several pieces of code in special scientific use today. Oh, and by the way... I contributed some little bit to NOS in the early days, too.

I've followed this debate silently so far, but the level of pouting has reached a point where I felt obligated to chastise some folks. I'm sorry if your open-source or free software experiences have been less than pleasant. My experiences have been, generally, stellar. The major arguments I've seen aired here against open-source code approach specious. If the current authors care to open their code up, I suspect there will be some benefits, but, damn it, it's THEIR CALL.

Pleas stop trying to convince me that, after 20 years or more in the business, I have to change my mind because you had a bad day.

Regards,  
Gerry n5jxs

--  
Gerry Creager                   gerry@cs.tamu.edu, gerry@page4.cs.tamu.edu  
Network Engineering                   |Research focusing on  
Computer Science Department           |Satellite Geodesy and  
Texas A&M University                   |Geodetic Control  
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#### 1044. [aprssig] Clovis police using APRS-like system

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Wed, 21 Jun 2000 22:07:27 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92312-2000.06.21-23.15.33--lyris.aprssig#tapr.org@lists.tapr.org>  
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Thought I sent this earlier, but it never showed up.

I had an interesting discovery today. It seems the Clovis (New Mexico) police department has been using a system similar to APRS to show the dispatcher just where their cars are. They've set up about half the fleet, with more to come.

An officer was nice enough to show me most of the system. The use some sort of Trimble GPS (rather large gold box) and what appears to be a TNC by a company in Canada. Also has a dedicated Motorola multi-channel transceiver, all mounted in the trunk.

Wonder if there's an easy way to find their "data" frequency? And I wonder if it might be 1200 BPS AX.25...

7 3  
Earl

Earl Needham, KD5XB      mailto:KD5XB@AMSAT.ORG  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)  
PGP Key ID 0xC3FDA66E

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

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#### 1045. [aprssig] long journey

From: "Roger Rockwell" <wb4trz@usa.net>  
Date: Thu, 22 Jun 2000 0:2:33  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92331-2000.06.22-00.06.15--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi again.  
IS THAT THE LIGHT I SEE AT THE END OF THE TUNNEL??  
APRS has worked great across NM and most of AZ.

New pictures through day nine should be posted now sorry for the wrong http last msg. <http://www.qsl.net/k1pns/>

73's Roger

---

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#### 1046. [aprssig] Re: Linux and APRS

From: Hamish Moffatt <hamish@cloud.net.au>  
Date: Thu, 22 Jun 2000 17:43:52 +1000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92336-2000.06.22-02.47.40--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Wed, Jun 21, 2000 at 01:31:24PM -0500, Mark Fellhauer wrote:  
> Second hurdle, the Mandrake install wants over 900 MB of file space to  
> install! Knocking off the extra packages still makes it huge at about 600  
> MB! So much for your compact OS. The next snag, Mandrake locks up during  
> the install - and it HARD LOCKS. Going to their web site it says their  
> distro REQUIRES a Pentium Class computer to install to. So much for  
> Mandrake...

[...]

> And just as an added zinger: If Linux is so great, how come it takes such  
> machinations to install (or to fail to install) on computers? I've had

Not all Linux distributions are the same. Red Hat is consumer oriented;  
Mandrake is Pentium optimised. Debian aims to be a good UNIX for those  
who know it, to be completely free software, and to do things right.

Debian doesn't have a graphical (X11) installation and doesn't require  
anything like that much disk space. It's an excellent OS for hams  
because there's a lot of ham software pre-packaged.

Last night I installed NetBSD onto an HP 382 workstation, which  
is an old 68040 25MHz machine with 16Mb RAM and 430Mb disk.  
That's a compact OS! Linux will run in similar resources just fine  
(there are Debian ports to the Amiga and Atari).

73,  
Hamish

--  
Hamish Moffatt VK3SB <hamish@debian.org> <hamish@cloud.net.au>

---  
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## 1047. [aprssig] Re: Comment on Open Source discussion

From: "Henk de Groot (EMN)" <Henk.de.Groot@emn.ericsson.se>  
Date: Thu, 22 Jun 2000 10:47:53 +0200  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92340-2000.06.22-03.51.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Sorry to comment again,

> -----Original Message-----  
> We are asked to attend way more hamfests to give talks to  
> than we have time  
> for. We have very high phone bills and I have had to buy a lot more  
> computers than I might have otherwise.

But isn't that exactly the drawback of closed-source? Its all up to  
one and the same person instead of a more collective effort. You  
have to pay all the expenses and go to hamfests etc. Because you  
are the only one knowing all ins and outs of the software, all  
people will come to you and bother you with questions, eating up  
all your spare time and keeping you from developing the program.

If you watch the FBB mailing list you seen what I mean. Most problems  
are solved by the list members and Jean Paul hardly has to answer  
a question himself. Patches and fixes come from all over the place  
and after verification by Jean Paul end up in the next version.

Kind regards,

Henk.

---  
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## 1048. [aprssig] Re: APRS frequencies/modes?

From: "Ev Tupis (W2EV)" <propnet@greeceny.com>  
Date: Thu, 22 Jun 2000 06:39:59 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92347-2000.06.22-05.40.36--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

"Smith, Tim" wrote:

>  
> Can someone tell me what the accepted or most popular frequencies for 6 and  
> 10 meters as well as 70 cm?

Hi Tim,  
Not seeing a reply to your inquiry, I thought I'd drop you a

note to help a bit. The README files that come with APRSdos are invaluable resources. In this case the two that have the information that you are looking for can be found online at:

<http://www.dididahdahdidit.com/text/hf.txt>  
<http://www.dididahdahdidit.com/text/uhf-freq.txt>

As for 6-meters, there is little actual APRS activity there, to my knowledge. However...an APRS-like service exists on 53.53-MHz in North America and Australia. It is called PropNET (<http://go.to/propnet>). Know, though, that PropNET is in its' infant stages, but growing daily. If your interest is in N.A. to Europe intercontinental 6-meter APRS, then you should know that the UK has been experimenting with APRS on 50.690-MHz.

I hope this helps.

Regards,  
Ev Tupis, W2EV

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## 1049. [aprssig] Auto Wx Objects\Warnings

From: "Dale Huguley" <[kg5qd@earthlink.net](mailto:kg5qd@earthlink.net)>  
Date: Thu, 22 Jun 2000 10:41:23 -0000  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-92349-2000.06.22-05.47.06--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi All-

Sorry for the delay in adding to the thread- I am changing my e-mail address (again)

1. As far as the severe wx objects going away after the expiration time- I am working on killing them when they expire. If the storm system is slow-moving the screen gets cluttered with old objects. Setting your station time out to one hour helps, but that doesn't work for hurricanes.
2. About retransmission- It turns out that a fixed time retransmission can cause qrm just when you don't need it. I have a solution that should be online by mid-July.
3. The I-gate solution is tied to the retransmission solution and turns out to be one of the toughest problems I have had to face programming- but I am over the hump and making good progress.

73 de kg5qd Dale note e-mail change to [kg5qd@earthlink.net](mailto:kg5qd@earthlink.net)

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## 1050. [aprssig] Digi Hurricane Icon

From: "Dale Huguley" <[kg5qd@earthlink.net](mailto:kg5qd@earthlink.net)>  
Date: Thu, 22 Jun 2000 10:50:49 -0000  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-92351-2000.06.22-05.56.31--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi All-

There is a digi in Coastal South Carolina that has chosen the hurricane symbol for an icon. This causes the digi to show up in the hurricane list (uselessly). Also if a real hurricane threatens that area, it will confuse the issue. Can someone convince the operator to change to a wiser icon?

73 de kg5qd Dale note new e-mail [kg5qd@earthlink.net](mailto:kg5qd@earthlink.net)

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## 1051. [aprssig] Re: Linux and APRS

From: "Henk de Groot (EMN)" <Henk.de.Groot@emn.ericsson.se>  
Date: Thu, 22 Jun 2000 12:59:15 +0200  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92352-2000.06.22-06.03.02--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> Last night I installed NetBSD onto an HP 382 workstation, which  
> is an old 68040 25MHz machine with 16Mb RAM and 430Mb disk.  
> That's a compact OS! Linux will run in similar resources just fine  
> (there are Debian ports to the Amiga and Atari).

Speaking of machines. Is there anybody running Linux with an AX.25 supporting kernel on a big-endian machine? I would very much like to know if DIGI\_NED runs on a big-endian machine without problems. It should but I have no means to test if it does, I might have goofed somewhere.

By the way, I do my development on a 100 Mhz 486 laptop with RedHat Linux 5.2, 20 MB ram, 512MB disk (have X on it and run Xastir also). I can't tell you about the uptime because I don't leave it running when I'm not using it. It never crashed on me. X is a bit heavy on a 486 but with WindowMaker it is not too bad either. Only the screen realstate of 640x480 is too small, I'm using a larger virtual screen. Running KDE or Gnome is no fun though. In character cell mode a 486 is more than enough.

Kind regards,

Henk.

---

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## 1052. [aprssig] RE: Premptive Digipeating

From: "Henk de Groot (EMN)" <Henk.de.Groot@emn.ericsson.se>  
Date: Thu, 22 Jun 2000 12:11:18 +0200  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92369-2000.06.22-07.59.49--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hello Mykle,

> -----Original Message-----  
> However, use specific callsigns for another example path:  
> "N7AAA,N7BBB,N7CCC".  
> If N7AAA doesn't hear the packet, and N7BBB does and sez:  
> "N7AAA,N7BBB\*,N7CCC".

Okay, I see - it also 'uses' up all predecessors before the digi that actually takes it.

> Then N7AAA should not repeat the packet even if it hears it  
> this time, and  
> N7CCC should repeat the packet if it hears it, using:  
> "N7AAA,N7BBB,N7CCC\*".

Yes, and N7CCC can even be an old digi that does not know this trick.

So now we have two options, this proposal and the one in which paths are swapped in the digipeater.

So that is:

"N7AAA,N7BBB,N7CCC".  
If N7BBB hears the packet, the digi put itself upfront:  
"N7BBB\*,N7AAA,N7CCC".

Now N7AAA will take the packet. No matter which of the 3 digis is the nearest, in the end it will have been broadcasted by N7AAA, N7BBB and N7CCC, the order depending on which station heard the packet first, second and third.

If there is a demand to experiment with this in real-life I can add both these preemptive digipeating options to DIGI\_NED, please tell me if there is.

Kind regards,

Henk.

--

#####  
The difference between theory and practice in practice is bigger than  
the difference between theory and practice in theory.

Henk de Groot | Tel: +31 53 4505400 Ext: 5400  
<Henk.de.Groot@emn.ericsson.se> | Ericsson Business Mobile Networks

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## 1053. [aprssig] RE: Clovis police using APRS-like system

From: "Sadowski, Allan" <allan.sadowski@ncshp.org>  
Date: Thu, 22 Jun 2000 09:22:38 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "'aprssig@tapr.org'" <aprssig@tapr.org>  
Message-ID: <LYR842-92377-2000.06.22-08.21.56--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Earl

AVL in general and GPS based tracking of vehicles predates APRS by a bit.

There is a growing aspect of the Public Safety sector that is using AVL  
(just  
do a search on AVL and GPS with your favorite search engine and you will  
see how big it is) ....Motorola has been selling AVL with their RDLAP mobile  
data system for a few years... they use Trimble Placers as well as AVLTech  
of Canada.... Kenwood's commercial sector even sells an AVL solution that  
uses RASTrak (or is it RASTRACK... sorry Jeff) ..

We can be thankful for Bob's efforts to bring this to our avocation... but  
it (AVL)  
was out there before any Ham's were playing with it.. Bob certainly showed  
how much more cheaply it could be done.. and we all should be thankful for  
that....

If you want to really see a serious AVL technology..... look at what the  
Military  
has used at Flight Test and Exercise Ranges... think HH-60, E-3, JSTARS,  
A-6, 10,  
F-5, AV-8, F-14, 15,16, 18, 22, B52, 1, and 2 - tankers, transport, and  
yep..  
even other country's aircraft.... all sending GPS position data out no less  
than 10  
times a second... with full six axis parametrics (pitch, roll, yaw  
attitudes, and pitch  
roll yaw rates) speed, and weapons parametrics... all this from LOTS of  
aircraft at  
one time (in the cases of exercises)... now THIS is positioning... safety  
controllers  
and evaluators watch the "game" as it's played out... and then when everyone  
lands...  
they play the whole game back again..... and can look at each aspect of the  
game...

Oh, the parametric data allows weapons shot parameters to be validated... so  
actual  
weapons release doesn't occur... just computer models do the fly out...

Now... imagine that on the same test and exercise ranges there are ground  
threats  
that also are sending their aiming/targeting vectors and it gets a bit more  
real....  
It's all there today.... and has been there a while...

And it's not just a aviation thing that predates APRS.... The Ground guys  
have  
similar test and exercise ranges.... that are getting pretty  
sophisticated... with  
aircraft play (think air to ground attack)... and indirect fire play (for  
those who've been

there... the King of Battle).... this is in addition to things like armour and infantry....

APRS is great... but AVL and GPS tracking predated APRS...

BTW... if you look at many of the public safety systems they have a "fault" that APRS doesn't have... the Officer in the car... rarely can that officer see where anyone else is at.... only the dispatchers see all the data... it's a one way system... which APRS isn't.... Kudo's to Bob for having everyone equal in from the perspective of viewing what's going on....

Now to the Clovis system... if it's Moto... and relatively new.... then it's likely to be an 800MHz system using VRM's and RNC's... likely to be 19,200 over the air (actual rate is 14,400 data... but FEC and overhead).... RDLAP is the protocol...

TNX for letting me charge in with 2cents....

ALOHA  
AH6LS

```
> -----Original Message-----
> From: Earl Needham [SMTP:KD5XB@AMSAT.ORG]
> Sent: Thursday, June 22, 2000 12:07 AM
> To: TAPR APRS Special Interest Group
> Subject: [aprssig] Clovis police using APRS-like system
>
>
> Thought I sent this earlier, but it never showed up.
>
> I had an interesting discovery today. It seems the Clovis (New
> Mexico) police department has been using a system similar to APRS to show
> the dispatcher just where their cars are. They've set up about half the
> fleet, with more to come.
> An officer was nice enough to show me most of the system The use
> some sort of Trimble GPS (rather large gold box) and what appears to be a
> TNC by a company in Canada. Also has a dedicated Motorola multi-channel
> transceiver, all mounted in the trunk.
>
> Wonder if there's an easy way to find their "data" frequency? And I
>
> wonder if it might be 1200 BPS AX.25...
>
> 7 3
>
```

---  
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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

---

## 1054. [aprssig] RE: Clovis police using APRS-like system

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Thu, 22 Jun 2000 07:38:04 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "'aprssig@tapr.org'" <aprssig@tapr.org>  
Message-ID: <LYR842-92382-2000.06.22-08.46.09--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 09:22 AM 6/22/00 -0400, Sadowski, Allan blasted the following out into the ether:  
><snip>  
>If you want to really see a serious AVL technology..... look at what the  
>Military  
>has used at Flight Test and Exercise Ranges... think HH-60, E-3, JSTARS,  
>A-6, 10, F-5, AV-8, F-14, 15,16, 18, 22, B52, 1, and 2 - tankers,  
>transport, and  
>yep.. even other country's aircraft.... all sending GPS position data out  
>no less  
>than 10 times a second... with full six axis parametrics (pitch, roll, yaw  
>attitudes, and pitch roll yaw rates) speed, and weapons  
>parametrics... all this from LOTS of  
>aircraft at one time (in the cases of exercises)... now THIS is  
>positioning.... safety



>controllers and evaluators watch the "game" as it's played out... and then  
>when everyone  
>lands... they play the whole game back again.... and can look at each  
>aspect of the  
>game...

Saw that system when I went to Red Flag a few years ago -- seems like  
it was called ASTI or something.

><snip>  
>Now to the Clovis system... if it's Moto... and relatively new.... then it's  
>likely to be an 800MHz system using VRM's and RNC's... likely to be 19,200  
>over the  
>air (actual rate is 14,400 data... but FEC and overhead).... RDLAP is the  
>protocol...

That's possible, I guess, but the antenna on the car appeared to be a  
high-band VHF antenna, and the city of Clovis is licensed for 155.31 and  
155.49, according to PerCon (thanks for the link, David!). I guess I'll  
just have to listen for a while and see.

7 3  
Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)  
PGP Key ID 0xC3FDA66E

Pet peeve: breath is a noun, breathe is a verb (When you take a breath,  
you breathe...)

---

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---

## 1055. [aprssig] Re:OpenSource

From: Jeff King <[jeff@aerodata.net](mailto:jeff@aerodata.net)>  
Date: Thu, 22 Jun 2000 09:45:06 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-92384-2000.06.22-08.47.24--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Jeff King wrote:

>  
> Please note this is coming from a person that has "pushed" UI-View on this  
> SIG before it was widely known in North America.

I am not clear in my comment.... I was refering to \*myself\*  
as the "pusher" in the sense I had spoken highly of UI-View on the SIG in the  
past before UI-View was well known in North America.

Sorry, as I can see how this could have been mis-understood as to who I was refering to.

-Jeff

---

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---

## 1056. [aprssig] KPC3Plus Seeing yourself

From: Daniel Dicke <[ke6nyt@earthlink.net](mailto:ke6nyt@earthlink.net)>  
Date: Thu, 22 Jun 2000 08:47:23 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-92410-2000.06.22-10.48.37--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

All,

I have some freinds that have traveled from Ventura, Ca. and are now in  
Tucumcarie(SP), NM. They have a KPC3Plus and the GPS is connected to  
the tnc through the radio port. The laptop is connected to the computer  
port. They only see themselves on the map after someone has repeated  
their signal. I know there is a command in the tnc/winaprs that allows  
them to see themselves without digipeating...but I don't know what it  
is. Could someone let me know so that I will know for the future and so

that they can set it for their journey back home. Thanks and 73

Dan Dicke  
KE6NYT

The traveling family is K060Y, AD6LT, and AC6NB and their tracker is AD6LT-12.

---

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## 1057. [aprssig] Re: Linux and APRS

From: Alex <krista@cofc.edu>  
Date: Thu, 22 Jun 2000 12:00:40 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "Henk de Groot (EMN)" <Henk.de.Groot@emn.ericsson.se>  
Message-ID: <LYR842-92412-2000.06.22-10.55.08--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I run RH 5.2 too on a 486/66/28Mb/6.8Gb. I use Ice as window manager on Xfree86, use a SoundBlaster 16 Waveeffects (PNP) as a soundmodem for Xastir. Excellent setup for me, and solid as a rock. I can recompile the kernel, browse the net with Netscape all at the same time and the lil' machine is just hummin' along. Haven't tried Xaprs yet, though.

Sometimes I run Win95 & WinAPRS/AGWPE&Soundmodem on the same hardware. Often I find myself rebooting quickly to Linux since it seems that anytime I start something in addition to that combination brings the machine or some processes to a screeching halt. It also seems that after running the Win95/WinAPRS/AGWPE combination for a couple of days the machine gets sluggish, while I never experienced that problem when running Linux.

I agree though that Linux can be hard to install sometimes, esp. when installed as a secondary OS.

Btw. Henk, did you ever try IceWM? I think it's a lot smaller than WM and it also seems to run faster on my machine than WM.

73s,  
Alex

"Henk de Groot (EMN)" wrote:

> By the way, I do my development on a 100 Mhz 486 laptop with RedHat  
> Linux 5.2, 20 MB ram, 512MB disk (have X on it and run Xastir also).  
> I can't tell you about the uptime because I don't leave it running  
> when I'm not using it. It never crashed on me. X is a bit heavy on  
> a 486 but with WindowMaker it is not too bad either. Only the  
> screen realestate of 640x480 is too small, I'm using a larger  
> virtual screen. Running KDE or Gnome is no fun though. In  
> character cell mode a 486 is more than enough.

>  
> Kind regards,

>  
> Henk.

>

> ---

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## 1058. [aprssig] Perl packet parser

From: "Thomas M. Schaefer" <toms@inconnect.com>  
Date: Thu, 22 Jun 2000 11:43:11 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92417-2000.06.22-12.45.55--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

To start, I do know about PerlAPRS.

I an currently starting a rewrite of ICQServe in Perl to run on a Linux system. Does anyone have a Perl module that parses out APRS packets.

Specifically, when a message is sent, I want to get a structure like  
msg->from, msg->to,msg->text,msg->ack.

I rather not reinvent the wheel if not necessary.

Thanks in advance,

Tom NY4I

---

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---

## 1059. [aprssig] Re: Perl packet parser

From: Steve Dimse <k4hg@tapr.org>  
Date: Thu, 22 Jun 2000 14:00:20 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92418-2000.06.22-13.04.08--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 6/22/00 1:43 PM Thomas M. Schaefer (toms@inconnect.com) wrote:

>To start, I do know about PerlAPRS.  
>  
>I am currently starting a rewrite of ICQServe in Perl to run on a Linux  
>system. Does anyone have a Perl module that parses out APRS packets.  
>Specifically, when a message is sent, I want to get a structure like  
>msg->from, msg->to,msg->text,msg->ack.  
>  
>I rather not reinvent the wheel if not necessary.  
>  
>Thanks in advance,  
>

I do have a parser, but it does not return an object. It produces the  
from call, to call, and message in variables, which I use to construct  
the SQL insert statement, I don't parse out the message number, and I  
trash ACKs.

I'll send it to you if you want, but it doesn't sound like it is what you  
are looking for.

Steve K4HG

---

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## 1060. [aprssig] Re: Perl packet parser

From: Jeff King <jeff@aerodata.net>  
Date: Thu, 22 Jun 2000 14:11:21 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92419-2000.06.22-13.12.48--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Thomas:

Did see Ian Wade's APRS Decoder program? Not sure if it will work  
for you as I haven't looked at the source yet of it.

><APRSdec> version 2.0 is now available. <APRSdec> parses APRS packets in  
>TNC/IGate output format or UI-View log format, producing a full decode of every  
>data element in each packet.

It is written in Perl 4 and the source was just released two days ago.

Get it at:

><APRSdec> may be downloaded from <http://www.netro.co.uk/aprs.htm>. There are  
>two distribution files: "aprsdec.zip" for DOS/Windows and "aprsdecu.tar" for  
>Unix/Linux. The DOS/Windows distribution includes a suitable Perl compiler.

-Jeff

"Thomas M. Schaefer" wrote:

> To start, I do know about PerlAPRS.  
>  
> I am currently starting a rewrite of ICQServe in Perl to run on a Linux  
> system. Does anyone have a Perl module that parses out APRS packets.  
> Specifically, when a message is sent, I want to get a structure like  
> msg->from, msg->to,msg->text,msg->ack.  
>  
> I rather not reinvent the wheel if not necessary.  
>  
> Thanks in advance,  
>  
> Tom NY4I  
>  
> ---  
> You are currently subscribed to aprssig as: jeff@aerodata.net  
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

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---

## 1061. [aprssig] Re: KPC3Plus Seeing yourself

From: K5QQ@aol.com  
Date: Thu, 22 Jun 2000 14:23:19 EDT  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92423-2000.06.22-13.27.31--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In a message dated 6/22/2000 9:48:02 AM Mountain Daylight Time,  
ke6nyt@earthlink.net writes:

> I have some freinds that have traveled from Ventura, Ca. and are now in  
> Tucumcarie(SP), NM. They have a KPC3Plus and the GPS is connected to  
> the tnc through the radio port. The laptop is connected to the computer  
> port. They only see themselves on the map after someone has repeated  
> their signal. I know there is a command in the tnc/winaprs that allows  
> them to see themselves without digipeating...

Hi Dan

Saw them travel thru a few days ago going to Quay NM, just south of  
Tucumcari. The command you need to have programmed is MXMIT ON and that  
will echo their position back to the program.

I remember their visit last year ( or so ) and so I chatted with them again  
as they cruised thru. Had good tracks all the way from the Arizona border to  
when they left I40 going south to Quay.

C U later

Jim Baremore K5QQ

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---

## 1062. [aprssig] Re: KPC3Plus Seeing yourself

From: "Earl S. Garber" <esgarber@teleport.com>  
Date: Thu, 22 Jun 2000 11:40:03 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92429-2000.06.22-13.42.55--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

It's MXmit ON.

...N3EG

---  
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---

## 1063. [aprssig] State of the art Weather Station?

From: "Ben Miller" <benm@uniplex.com>  
Date: Thu, 22 Jun 2000 13:49:16 -0500

To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-92430-2000.06.22-13.53.59--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi all,

Well lightning took out my weather station. So, if price were no object (ok within reason < \$1500) what weather station would you buy to interface to WinAPRS?

To the Sproul's: Are there any new ones soon to be supported?

If you take whatever detail anyone has.

If you want to respond to me directly, I'll piece the results together and send out a summary to everyone.

Thanks all and 73's

Ben Miller  
KC5NFU

---

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---

#### 1064. [aprssid] Re: State of the art Weather Station?

From: Ray Vaughan <ray@rayvaughan.com>  
Date: Thu, 22 Jun 2000 15:13:00 -0400  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Cc: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-92433-2000.06.22-14.17.04--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 01:49 PM 6/22/00 -0500, you wrote:

>Hi all,

>

>Well lightning took out my weather station. So, if price were no object (ok  
>within reason < \$1500) what weather station would you buy to interface to  
>WinAPRS?

Sorry... Same thing has happened to me. It may be one of my most expensive toys to go up in smoke.

There is something very new...

Check page 80 in the July QST, or <http://www.tapr.org/tapr/html/Ft238.html>

I believe it interfaces directly to a radio without a local computer. Maybe this would work better for you? I don't know what it's current status is with WinAPRS.

---

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#### 1065. [aprssid] Re: MacAPRS Rain reporting with PB U2K

From: "Rich Clemens" <clemens@wvwc.edu>  
Date: Thu, 22 Jun 2000 15:32:38 -0400  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-92437-2000.06.22-14.36.40--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I am running MacAPRS 3.45 and fail to receive rain information from my Peet U2K set in packet mode and connected to a KPC3. The "rain graph" reports something (not rain) and the map and station information is always 0.00. Is this a known problem? A fix?

--

Rich Clemens  
clemens@wvwc.edu

---

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---

#### 1066. [aprssid] Re: State of the art Weather Station?

From: Steve Dimse <k4hg@tapr.org>  
Date: Thu, 22 Jun 2000 15:33:09 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92439-2000.06.22-14.42.00--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 6/22/00 3:13 PM Ray Vaughan (ray@rayvaughan.com) wrote:

>>Well lightning took out my weather station. So, if price were no object (ok  
>>within reason < \$1500) what weather station would you buy to interface to  
>>WinAPRS?

>  
>Sorry... Same thing has happened to me. It may be one of my most  
>expensive toys to go up in smoke.

>  
>There is something very new...

>  
>Check page 80 in the July QST, or <http://www.tapr.org/tapr/html/Ft238.html>

>  
>I believe it interfaces directly to a radio without a local computer.  
>Maybe this would work better for you? I don't know what it's current  
>status is with WinAPRS.

>  
This outputs Peet format, it will work with anything that accepts that,  
it does not include a modem so you need a TNC or other encoder if you  
want to do a stand-alone station.

However, the 1 wire station hardware sold by Dallas Semi is hardly state  
of the art. Direction sensors are limited to 22.5 degrees, though with  
software averaging it actually gives a nice plot. The temp sensor is in  
the wind gauge, so it is very sensitive to solar radiation, a radiation  
shield helps here. There is no humidity or pressure sensors available yet.

Steve K4HG

---

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---

## 1067. [aprssi] Re: State of the art Weather Station?

From: "Aaron" <ae4ko@amsat.org>  
Date: Thu, 22 Jun 2000 15:42:46 -0400  
To: "TAPR APRS Special Interest Group" <aprssi#lists.tapr.org>  
Message-ID: <LYR842-92441-2000.06.22-14.45.42--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> There is something very new...  
>  
> Check page 80 in the July QST, or  
> <http://www.tapr.org/tapr/html/Ft238.html>  
>  
> I believe it interfaces directly to a radio without a local computer.  
> Maybe this would work better for you? I don't know what it's current  
> status is with WinAPRS.

Although I am not an active WinAPRS user, it should work fine.  
The T238 has a few options as far as data is concerned, one of  
which is a Peet Bros. format which most any APRS client program  
understands.

It has 4 basic modes of operation for communication to the outside  
world:

- 1) 5 min averaged TNC-direct mode (uses CONV mode of the TNC)
- 2) 5 min averaged TNC-LTP (uses the LTP mode of the KPC3+'s)
- 3) 5 sec live computer mode (sends to computer in APRS format)
- 4) 5 sec live Peet format (sends raw data in Peet format )

(Note:

APRS format is  
\_MMDDHHMMcxxxxxxxPxxrxxxe1w

Peet format is  
!aaaabbbcccccdddeeeffffggghhhiiiijjjjkkkk

taken from the docs for the curious)

The cost is reasonable:

\$79 for the wind/speed/temp unit from Dallas Semiconductor  
\$49 for an optional rain gauge from Dallas Semiconductor  
\$134 for the T238 kit from TAPR (members are a bit less)

So for well under \$300, you can a pretty complete station that is expandable (it uses the Dallas 1-wire interface)

Definitely worth a look.

Aaron, ae4ko  
Beta tester for the T238

---  
(Random Quote)  
They all stopped arguing as Don fired up his chain saw and growled...

---  
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## 1068. [aprssig] SUNSAT APRS Digipeater

From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
Date: Thu, 22 Jun 2000 17:36:52 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Satellite Special Interest Group <[aprssat@lists.tapr.org](mailto:aprssat@lists.tapr.org)>, TAPR APRS Special Interest Group <[aprssig@tapr.org](mailto:aprssig@tapr.org)>  
Message-ID: <LYR842-92464-2000.06.22-16.41.09--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain  
NEWS FLASH (MAYBE)

In preparation for possible 1200 baud standard APRS for fielday, there will be a test tonight of SUNSAT at these times (I hope I predicted these right!):

| PDT  | CDT  | EDT                                         |
|------|------|---------------------------------------------|
| ---- | ---- | ----                                        |
|      |      | 1843 (very low to east, even on east coast) |
|      | 1921 | 2021                                        |
| 1900 | 2100 | 2200                                        |
| 2040 | 2240 |                                             |

Just use NORMAL APRS but tune to the 145.825 downlink 1200 baud.  
If you have a dual band rig, then TRANSIT on 436.280, .285, .290, .295, .300 as the pass progresses.

Do NOT hog it. Shorten your packets.  
Use the path of VIA SUNSAT  
This should be FUN!

de WB4APR, Bob

---  
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## 1069. [aprssig] APRN - Pictures with APRS information combined?

From: "David C. Kovar" <[kovar@webnexus.com](mailto:kovar@webnexus.com)>  
Date: Thu, 22 Jun 2000 16:28:34 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-92477-2000.06.22-18.32.14--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Greetings,

So I've got APRS working, and I've got SSTV working. I'd really like to merge the two, and Bob and Keith's effort to produce APRN seems to be a very workable direction.

What I really want to do is hit the transmit key on my VC-H1 and have it send the latest image combined with the information from the GPS connected to the D7A over the air to the receiving station. I'm not really concerned with the web server part of it, I just need the picture and GPS information to appear in a directory somewhere on the computer. This is the missing

piece for duplicating the Civil Air Patrol's SSTV system in a lower cost package. (<http://www.iwaynet.net/~bekn8xlt/>) Even better would be all the APRS information - then you'd know the direction and altitude of the camera.

Does anyone have this working, on \*any\* platform? Linux, NT, 98, Mac? Bob? Keith? Someone else?

Thanks very much.

-David

---

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---

## 1070. [aprssig] Re: APRN - Pictures with APRS information combined?

From: David VanHorn <[dvanhorn@cedar.net](mailto:dvanhorn@cedar.net)>  
Date: Thu, 22 Jun 2000 18:34:14 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-92479-2000.06.22-18.39.59--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-92479-2000.06.22-18.39.59--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

>

>Does anyone have this working, on \*any\* platform? Linux, NT, 98, Mac? Bob?  
>Keith? Someone else?

Me too! Having just come off a skywarn session tuesday chasing two tornadoes.

--

[www.SpamWhack.com](http://www.SpamWhack.com) A pre-emptive strike against spam  
A tornado is a lady whose skirts you do NOT want to look up!  
Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

---

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## 1071. [aprssig] Re: [aprssat] SUNSAT APRS Digipeater

From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
Date: Thu, 22 Jun 2000 20:28:55 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@tapr.org](mailto:aprssig@tapr.org)>  
Message-ID: <[LYR842-92490-2000.06.22-19.33.39--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-92490-2000.06.22-19.33.39--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Oh well. Nothing heard here ... :-(  
Remember these are preparation testing, not all the bugs are worked out.  
It takes a few days to try out a new software upload..  
bob

On Thu, 22 Jun 2000, Bob Bruninga wrote:

> NEWS FLASH (MAYBE)

>

> In preparation for possible 1200 baud standard APRS for fielday, there  
> will be a test tonight of SUNSAT at these times (I hope I predicted these  
> right!):

>

| > PDT  | > CDT  | > EDT                                         |
|--------|--------|-----------------------------------------------|
| > ---- | > ---- | > ----                                        |
| >      | >      | > 1843 (very low to east, even on east coast) |
| >      | > 1921 | > 2021                                        |
| > 1900 | > 2100 | > 2200                                        |
| > 2040 | > 2240 |                                               |

>

> Just use NORMAL APRS but tune to the 145.825 downlink 1200 baud.  
> If you have a dual band rig, then TRANSIT on 436.280, .285, .290,  
> .295, .300 as the pass progresses.

>

> Do NOT hog it. SHorten your packets.  
> Use the path of VIA SUNSAT  
> This should be FUN!

>

> de WB4APR, Bob



>  
>  
>  
>  
>  
> ---  
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>  
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org  
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060  
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>  
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>  
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

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## 1072. [aprssi] Elmer for Oberlin OH

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Thu, 22 Jun 2000 20:42:30 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Cc: sylvester@o-farrell.com  
Message-ID: <LYR842-92495-2000.06.22-19.46.50--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Anyone close to Oberlin Ohio want to elmer KJ7WP ?  
His Email is sylvester@o-farrell.com

He seems interested in APRS... on a 286...

bob

---

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---

## 1073. [aprssi] Digi Hurricane Icon

From: DHyatt@aol.com  
Date: Thu, 22 Jun 2000 20:49:47 EDT  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-92496-2000.06.22-19.53.53--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Thanks Dale for the alert. A gentle nudge via E-mail seems to have it fixed.  
If all goes as promised, the icon will be changed by Stephen tomorrow.  
Totally unintentional. 73 Dave KU4YM

---

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---

## 1074. [aprssi] Re: State of the art Weather Station?

From: "Earl S. Garber" <esgarber@teleport.com>  
Date: Thu, 22 Jun 2000 17:57:10 -0700  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-92497-2000.06.22-19.59.53--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The TAPR/Dallas Semi weather station is a good deal?  
I don't get it. A weather station with wind/outdoor temp only for \$213 (partial kit)  
compared to the WM-918 Oregon Scientific (I hear it's the Radio Shack  
unit) with wind/temp/humidity(dewpoint)/pressure for \$250.  
Am I missing something?  
OK, maybe the lightning strike/soil moisture capability...  
I haven't seen a TAPR kit yet that was priced like a kit!

...Earl, N3EG

---

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## 1075. [aprssi] RE: Clovis police using APRS-like system

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Thu, 22 Jun 2000 19:01:25 -0600  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-92500-2000.06.22-20.08.33--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 07:38 AM 6/22/00 -0600, Earl Needham blasted the following out into the ether:

>>snip>

> That's possible, I guess, but the antenna on the car appeared to be  
> a high-band VHF antenna, and the city of Clovis is licensed for 155.31  
> and 155.49, according to PerCon (thanks for the link, David!). I guess  
> I'll just have to listen for a while and see.

I don't know WHAT frequency they may THINK they're putting their positions on, but I hear digital stuff at the beginning of their VOICE transmissions...

Hmm...

Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)  
PGP Key ID 0xC3FDA66E

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

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## 1076. [aprssi] County Warnings

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Thu, 22 Jun 2000 23:33:38 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-92511-2000.06.22-22.38.03--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

TONight I see the following WX WARNING:

PHISVR>WARN:220130z,SVRTSM,PA\_C095, NORTHAMPTON COUNTY {M1CAA

I am aware of the change to ZULU time and the change to SS\_ZZZZ zones format, but what is this full lenght county name at the end that is not compatible with the old format? Is this a fluke, or an intentional non-backwards compatible fomrat?

Bob

---

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## 1077. [aprssi] RE: Preemptive Digipeating

From: "Mykle Raymond" <mykle@gci-net.com>  
Date: Thu, 22 Jun 2000 22:56:07 -0700  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-92548-2000.06.23-00.57.11--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Henk proposed:

> So now we have to options, this proposal and the one in which  
> paths are swapped in the digipeater.  
>  
> So that is:  
>  
> "N7AAA,N7BBB,N7CCC".  
> If N7BBB hears the packet, the digi put itself upfront:

> "N7BBB\*,N7AAA,N7CCC".  
>  
> Now N7AAA will take the packet. No matter which of the 3 digis is  
> the nearest, in the end it will have been broadcasted by N7AAA,  
> N7BBB and N7CCC, the order depending on which station heard the  
> packet first, second and third.  
>  
> If there is a demand to experiment with this in real-life I can  
> add both these preemptive digipeating options to DIGI\_NED, please  
> tell me if there is.

Hello Henk,

Path swapping sounds great, now that I've thought about it for  
awhile. BUT ONLY FOR SPECIFIC (FIXED) CALLSIGNS, and NOT for  
generic names!

If swapping results in WIDE,RELAY then I'd have to go hide my  
tracker, somewhere far from my real location ;-)

Path swapping sounds like it would optimize Bob's original Preemptive  
Digipeating proposal, when fixed callsigns are used.

We'll have to some careful thinking about any swapping of generic  
names. My present thinking is that RELAY and WIDE/TRACE should be  
left alone. We'll also need to be careful about special generic  
names, like those found in special events, like RACE or SAR or  
BALLOON. So you'll need to be able to tell what's a callsign, or  
a generic alias.

I think of paths as being either all generic, or all fixed callsigns.  
I'm sure that there are some areas that use a mix of generic and  
fixed digipeater callsigns, so it would help to hear about some of  
these as we figure out what to swap, or not swap.

When we have some DIGI\_NED stations around here, we'll be sure to  
check out whatever you have implemented, Henk!

We will need more enthusiasm than there is so far for this protocol  
tweak before we can make any recommendations to the APRS TNC firmware  
authors. It's looking like everywhere else uses RELAY,WIDE digis,  
and not just WIDE or WIDEN, so this idea doesn't affect them.

There are other readers who are more interested in a next-generation  
packet / APRS network. Preemptive Digipeating in one form or another  
is just another band-aid on the present network. Or perhaps those  
readers are still being distracted by the open-source discussion ;-)

73 de Mykle N7JZT  
Tucson

---

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## 1078. [aprssig] Hurricane ICON

From: "Lee Dahlen" <kd4tqz@qsl.net>  
Date: Fri, 23 Jun 2000 05:47:30 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92556-2000.06.23-04.43.42--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Consider the op contacted. Thx. de Lee/KD4TQZ

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---

## 1079. [aprssig] Field (day) Trip

From: "Tom Clarke" <fclarke@erols.com>  
Date: Fri, 23 Jun 2000 06:06:23 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92558-2000.06.23-05.10.17--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

W40KW-7 is off to Thule Greenland 6/23 to 6/24 and the mighty Herk will have APRS on board. Look for me as I wend my way from the DC area up over Montreal across NFLD to Thule. VHF only so I will run out of coverage as I head up into the frozen North (forecast is for 50 degrees in Thule, so not so frozen). Departing 1030Z Friday. RTB 2359Z on Sat. c/s WB763

73 de Tom

---

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## 1080. [aprssig] Re: County Warnings

From: "Dale Huguley" <[kg5qd@earthlink.net](mailto:kg5qd@earthlink.net)>  
Date: Fri, 23 Jun 2000 10:19:58 -0000  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-92559-2000.06.23-05.26.17--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi Bob and All,

I added the full county name over a month ago mainly for D7 and D700 users. The county name appears on the second line on the D700 and is for human reading only. If it is a zone rather than a county there is no "COUNTY" at the end. I put an e-mail on the proto sig asking if anyone thought it would cause a problem with any of the various softwares- and got no reply.

This has a limit of two counties/zones. In Collier County Florida we see all the watches/warnings for the entire country in order for me to test this stuff. While driving the full county name is very readable on my D700 - then if an object was parsed you get a "new station" beep with a display of what the danger is- such as "Severe Thunderstorm". The full set of packets from the warning Bob referenced:

```
PHISVR>APRS:NWS-WARN :220130z,SVRTSM,PA_C095, NORTHAMPTON COUNTY {M1CAA
PHISVR>APRS:NWS-WARN :SVR mov E @40 03 W of BATH {M1CAC
PHISVR>APRS:;PHIS0112z*220112z4043.65N\07526.93WT090/040 SEVERE THUNDERSTORM
{M1CAD
```

So if you are mobile you get a warning with the county name as clear as possible, then a human readable location ( "3 W of Bath") then an object that on the D700 display says "Severe Thunderstorm" . Pressing "Detail" gives you the distance from you , and course and speed (if you are running a gps). If this is causing a problem let me know.

73 de kg5qd Dale new e-mail [kg5qd@earthlink.net](mailto:kg5qd@earthlink.net)

Bob Bruninga Said

>Tonight I see the following WX WARNING:

>

>PHISVR>WARN:220130z,SVRTSM,PA\_C095, NORTHAMPTON COUNTY {M1CAA

>

>I am aware of the change to ZULU time and the change to SS\_ZZZZ zones  
>format, but what is this full lenght county name at the end that is not  
>compatible with the old format? Is this a fluke, or an intentional  
>non-backwards compatible fomrat?

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---

## 1081. [aprssig] Cross band repeater

From: [KE6PPE@aol.com](mailto:KE6PPE@aol.com)  
Date: Fri, 23 Jun 2000 07:07:18 EDT  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-92569-2000.06.23-06.11.01--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I own an IC-2350 dual Band transceiver (2 meters/70 centimeters) and would like to be able to cross band/repeater this radio. Is it possible and due you do it

Larry KE6PPE

---

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## 1082. [aprsid] RE: Preemptive Digipeating

From: "Henk de Groot (EMN)" <Henk.de.Groot@emn.ericsson.se>  
Date: Fri, 23 Jun 2000 13:10:51 +0200  
To: "TAPR APRS Special Interest Group" <aprsid@lists.tapir.org>  
Message-ID: <LYR842-92570-2000.06.23-06.14.42--lyris.aprsid#tapir.org@lists.tapir.org>  
Rendered body type: text/plain

> Path swapping sounds great, now that I've thought about it for  
> awhile. BUT ONLY FOR SPECIFIC (FIXED) CALLSIGNS, and NOT for  
> generic names!  
>  
> If swapping results in WIDE,RELAY then I'd have to go hide my  
> tracker, somewhere far from my real location ;-)

Good point. I think it will help to have that swapping only to the  
call-sign which takes the packet:

So if you have.

AAA>BBB,CCC,DDD,EEE,FFF

And DDD takes it with this option enabled then the transition should  
go as follows:

DDD takes itself out:

AAA>BBB,CCC,EEE,FFF

And insert itself at the lefthand side after any previous digis

AAA>BBB,DDD\*,CCC,EEE,FFF

So if the next station is EEE, EEE takes itself out and inserts  
itself, result:

AAA>BBB,DDD\*,EEE\*,CCC,FFF

This means that if for example CCC and FFF are generic calls that they  
stay in the correct order.

There is some danger when a newbie specified something like

RELAY,W0ABC,WIDE

as a path and W0ABC does this transition so the result is

W0ABC\*,RELAY,WIDE

This is unwanted. On the otherhand you can't protect against  
things like this, a newbie might just as well specify something  
like:

WIDE2-2,RELAY,WIDE,RELAY

Not much you can do against it. APRS is ramping up here, and there  
are users who do:

WIDE,WIDE,TRACE7-7

so ignorance does exist...

With the procedure I described a path like RELAY,W0ABC,WIDE can  
never become W0ABC\*,WIDE,RELAY... The order of generic calls will  
stay the same. Of course you still can have somebody who tries to  
do preemptive digipeating on "WIDE", then you're lost.

But being a HAM means to experiment with things like this. I will  
add this to DIGI\_NED for you to experiment with. If it turns out  
to be a bad idea I will take it out again. At least the non-swapping  
version makes a lot of sense IMHO.

Kind regards,

Henk.

--

#####

The difference between theory and practice in practice is bigger than the difference between theory and practice in theory.

Henk de Groot | Tel: +31 53 4505400 Ext: 5400  
<Henk.de.Groot@emn.ericsson.se> | Ericsson Business Mobile Networks

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### 1083. [aprssig] RE: Clovis police using APRS-like system

From: "Jack Plum" <[jackplum@servtech.com](mailto:jackplum@servtech.com)>  
Date: Fri, 23 Jun 2000 07:56:05 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-92579-2000.06.23-07.00.25--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Earl wrote:

> I don't know WHAT frequency they may THINK they're putting their  
> positions on, but I hear digital stuff at the beginning of their VOICE  
> transmissions...  
>

Earl, it sounds like an ANI burst. We have one that precedes each of our transmissions. It identifies each unit whether mobile or portable.

Jack WX3P

---

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### 1084. [aprssig] Re: APRN - Pictures with APRS information combined?

From: K3for@aol.com  
Date: Fri Jun 23 08:25:15 2000  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-92584-2000.06.23-07.29.40--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Yes, David, I have this working. The software is not ready for web-server version release, but it does what you want it to do very well. Here's the sequence:

- 1) Enter a caption for your picture in your APRS status text menu.
  - 2) Make sure you're getting a position from the GPS
  - 3) If APRS xmit is in auto, toggle to send a beacon
  - 4) verify the APRN fixed station received your posit as seen by the "My packet" digipeat
  - 5) hit transmit on the VC-H1
  - 6) within a few seconds of completing image transmission, you will see a confirmation message like:  
W3ADO-9 [APRN fixed station]  
APRN#35/K6DCK (image number and sender)  
-e (status of FTP upload to the web, not needed in your case)
- You would simply check the box to disable FTP, and be able to view the info on a local web browser page. See [www.johnsonsystems.net](http://www.johnsonsystems.net) for what it looks like (ignore some of the recent glitches - I was trying something new that doesn't work quite yet)

I'll send you info on where to download the software.

Skip/K3FOR  
Annapolis

"David C. Kovar" <[kovar@webnexus.com](mailto:kovar@webnexus.com)> wrote:

>>want to do is hit the transmit key on my VC-H1 and have it send the latest image combined with the information from the GPS connected the D7A over the air to the receiving station. I'm not really concerned with the web server part of it, I just need the picture and GPS information to appear in a directory somewhere on the computer

---

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### 1085. [aprssig] Re: Field (day) Trip

From: Earl Needham <[KD5XB@AMSAT.ORG](mailto:KD5XB@AMSAT.ORG)>  
Date: Fri, 23 Jun 2000 07:11:58 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>

Message-ID: <LYR842-92590-2000.06.23-08.16.24--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 06:06 AM 6/23/00 -0400, Tom Clarke blasted the following out into the ether:  
>W40KW-7 is off to Thule Greenland 6/23 to 6/24 and the mighty Herk will have  
>APRS on board. Look for me as I wend my way from the DC area up over  
>Montreal across NFLD to Thule. VHF only so I will run out of coverage as I  
>head up into the frozen North (forecast is for 50 degrees in Thule, so not  
>so frozen). Departing 1030Z Friday. RTB 2359Z on Sat. c/s WB763

Too bad you can't hook up to the old HF. Do the Hercs still carry  
the hand key like they used to?

7 3  
Earl

Earl Needham, KD5XB  
Clovis, NM DM84jk N34°25.446' W103°12.700'  
Commercial Pilot  
Airplane, Single Engine Land  
Instrument Airplane  
Private Privileges, Airplane Single Engine Sea  
Former US Marine (A-4, A-6, and KC-130 maintenance)  
US Air Force, retired (F-4, F-16, F-111 maintenance)

---

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## 1086. [aprssid] Re: County Warnings

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Fri, 23 Jun 2000 09:23:14 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssid@lists.tapr.org>  
Message-ID: <LYR842-92593-2000.06.23-08.27.00--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Fri, 23 Jun 2000, Dale Huguley wrote:

> Hi Bob and All,  
> I added the full county name over a month ago mainly for D7 and D700  
> users. The county name appears on the second line on the D700 and is for  
> human reading only. If it is a zone rather than a county there is no  
> "COUNTY" at the end.

I am all for thnigs that will display nicely on the D700, but with this  
new format, we have instantly obsoleted the County warning system built  
into every existing copy of APRSdos. Why not if you are going to make the  
1-for-1 maping from the SS\_ZZZZ Zone to a COUNTY name, why not make it in  
the format (SS\_NNNNNN) that all existing software can read as well as the  
human users?

Just a thought...

> PHISVR>APRS:NWS-WARN :220130z,SVRTSM,PA\_C095, NORTHAMPTON COUNTY {M1CAA  
> PHISVR>APRS:NWS-WARN :SVR mov E @40 03 W of BATH {M1CAC

This seems to be a mixed mode. The first message follows the spec for a  
WARNING (as recently modified). But the second one does not. And the  
data in the second one contains CSE/SPD which is alrerady included  
in the OBJECT that follows.

> PHISVR>APRS:;PHIS0112z\*220112z4043.65N\07526.93WT090/040 SEVERE THUNDERSTORM  
> {M1CAD  
>  
> So if you are mobile you get a warning with the county name as clear as  
> possible, then a human readable location ( "3 W of Bath") then an object  
> that on the D700 display says "Severe Thunderstorm" . Pressing "Detail"  
> gives you the distance from you , and course and speed (if you are running a  
> gps). If this is causing a problem let me know.

No, I think it is great. I guess what I'm thinking is to consider the  
idea of using the SS\_NNNNNN format for the county name so that WX warnings  
will still show up on APRSdos users?

And the non-spec use of the NWS-WARN format to send non formatted data...

de WB4APR, Bob

---

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---

### 1087. [aprssig] PK232MBX and WinAPRS

From: "Luis" <lbriones@arnet.com.ar>  
Date: Fri, 23 Jun 2000 10:31:15 -0300  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92596-2000.06.23-08.35.14--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi,

Mi name is Luis. I'm from Argentina. I have an old PK232MBX and can't work with it with WinAPRS program.

I not have idea how configurate the program. I try with the instruction that come in WinAPRS, but nothing happend.

Any idea, help or something, please!!!!

73 de Luis Briones  
LU6VG

---

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---

### 1088. [aprssig] UO-22 THIS MORNING (fwd)

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Fri, 23 Jun 2000 09:37:45 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92598-2000.06.23-08.42.00--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

----- Forwarded message -----

Date: Fri, 23 Jun 2000 00:22:17 -1300  
From: pedro perez <papac@mixmail.com>

Hi Bob:

This morning in the 8:10am pass of UO-22 (28 degrees max elev.), I worked APRS digipeating with my D7A(G) and a dual band whip (MFJ 1717) INDOOR!!!  
"MY POSITION" appeared many times in the display when I transmitted my signal. It demonstrates that this is a very reliable message system!  
Also, I have a little question. Can I send shorts E-mails via APRS network? If it is possible, how can do it with my D7? (I have seen your web page and I think it is possible).  
SINCERELY. Pedro, EB4DKA.(EL97TP)

Yes, just send an APRS message to EMAIL and in the message make the first word of the message be the full email address. Thus you are limited to a very short message of what remains on the line...

bob

---

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---

### 1089. [aprssig] Questions

From: Red <RedHaines@centurytel.net>  
Date: Fri, 23 Jun 2000 08:47:57 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92600-2000.06.23-08.51.22--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I have one of the Citadel computers with APRS and have a lot of questions. I don't have much DOS experience.



I have successfully entered the basic registration number for APRSdos and it works.

How do I enter the GPS, DF, and WX registration numbers? Is it necessary to have a GPS interfaced to the Citadel while trying to enter the reg number? Similar for a WX station?

What can you share regarding touch command features. I've figured out how to move the cursor and how to hook a station. Once, I found a zoom menu, but cannot find it again. Can the menu items be removed from the right side of the display? I'd like full command of the display without a keyboard, for portable and mobile use.

73 de Red, W00W

---

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---

## 1090. [aprssig] D700a "Time" Question

From: Greg Higgins <gregh@onramp.net>  
Date: Fri, 23 Jun 2000 09:23:52 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92608-2000.06.23-09.24.02--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I have tried to find the answer to this problem (RTFM and websites) but am hitting a brick wall! Seems I remember someone discussing the solution on the SIG. The problem is the "Time". Under menu "1-6-3" I have set the time. Later when I check it again, I find that the "clock" doesn't turn over at 12/24 hours but keeps on going. Nothing like seeing packets come through at 38:14!! Has anybody seen this or can offer a solution? The date has remained correct throughout and the UTC offset is correct. Thanks to everyone for all of the help!

Greg Higgins  
KB5GLV

P.S. I downloaded the APRS protocol reference and HIGHLY encourage everyone to read it to gain a better understanding of how APRS actually works. Thanks to the authors for taking the time and effort to develop the protocol and making it available.

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---

## 1091. [aprssig] Re: County Warnings

From: Ian Wade <Ian.Wade@care4free.net>  
Date: Fri, 23 Jun 2000 15:35:51 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92612-2000.06.23-09.41.40--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In article <LYR14778-92593-2000.06.23-08.27.00--Ian.Wade#care4free.net@lists.tapr.org>, Bob Bruninga <bruninga@nadn.navy.mil> writes

>Just a thought...

>

>> PHISVR>APRS:NWS-WARN :220130z,SVRTSM,PA\_C095, NORTHAMPTON COUNTY {M1CAA

>> PHISVR>APRS:NWS-WARN :SVR mov E @40 03 W of BATH {M1CAC

>

Slightly off-topic. This format is obsolete. These are \*beacons\*, not messages (because the first character of the data here is "N", not ":").

If you're tidying up the NWS message texts, you may as well get the Data Type Identifier right too.

73  
Ian, G3NRW  
Technical Editor, APRS Protocol Specification

--

+-----+  
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |  
| email: g3nrw@ar1.net |

```
|
| APRS PROTOCOL SPEC:      http://www.tapr.org/tapr/html/Faprswg.html |
| <APRSdec> APRS DECODER: http://www.netro.co.uk/aprs.htm           |
+-----+
```

---

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---

## 1092. [aprssig] RE: Clovis police using APRS-like system

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Fri, 23 Jun 2000 07:14:55 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92624-2000.06.23-11.37.31--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 07:56 AM 6/23/00 -0400, Jack Plum blasted the following out into the ether:

>Earl wrote:

> > I don't know WHAT frequency they may THINK they're putting their  
> > positions on, but I hear digital stuff at the beginning of their VOICE  
> > transmissions...  
> >  
>

>Earl, it sounds like an ANI burst. We have one that precedes each of our  
>transmissions. It identifies each unit whether mobile or portable.  
>

>Jack WX3P

Could be, Jack. But it isn't at the start of every transmission,  
just the mobiles, I think.

I've had suggestions of data bursts for trunking systems, but they're  
only on one frequency, and it's high band. Also had a suggestion that it  
might be digital PL.

But the real question I have is how do I find their radio-locating  
frequency? Still working on that one.

Thanks all,  
Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)  
PGP Key ID 0xC3FDA66E

Pet peeve: breath is a noun, breathe is a verb (When you take a breath,  
you breathe...)

---

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## 1093. [aprssig] RE: Clovis police using APRS-like system

From: Bill Diaz <billdiaz@megsinet.net>  
Date: Fri, 23 Jun 2000 12:03:30 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92625-2000.06.23-12.07.35--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Earl,

It is possible to use a commercial service that uses cellular frequencies,  
and cellular control channels to pass AVL information.

CDPD is a possibility if it is available in your area. Cellemetry, and Aeris  
Microburst also provide this capability.

Bill KC9XG

On Friday, June 23, 2000 8:15 AM, Earl Needham [SMTP:KD5XB@AMSAT.ORG] wrote:

> At 07:56 AM 6/23/00 -0400, Jack Plum blasted the following out into the  
ether:

>

> >Earl wrote:

> > > I don't know WHAT frequency they may THINK they're putting their  
> > > positions on, but I hear digital stuff at the beginning of their VOICE  
> > > transmissions...

> > >

> >

> >

> >Earl, it sounds like an ANI burst. We have one that precedes each of our

```

> >transmissions. It identifies each unit whether mobile or portable.
> >
> >Jack WX3P
>
>      Could be, Jack. But it isn't at the start of every transmission,
> just the mobiles, I think.
>      I've had suggestions of data bursts for trunking systems, but they're
> only on one frequency, and it's high band. Also had a suggestion that it
> might be digital PL.
>      But the real question I have is how do I find their radio-locating
> frequency? Still working on that one.
>
>      Thanks all,
>      Earl
>
>
> Earl Needham, KD5XB      mailto:KD5XB@AMSAT.ORG
> Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)
> PGP Key ID 0xC3FDA66E
>
> Pet peeve: breath is a noun, breathe is a verb (When you take a breath,
> you breathe...)
>
>
> ---
> You are currently subscribed to aprssig as: BILLDIAZ@MEGSINET.NET
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

```

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## 1094. [aprssig] Pharos GPS - They Exist!

```

From: Mike Musick <mcmusick@anet-stl.com>
Date: Fri, 23 Jun 2000 16:22:47 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-92649-2000.06.23-16.24.14--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

I have in my hands (...makes it difficult to type...) six Pharos iGPS-180 GPS's, received today on direct order fulfillment from Pharos.

Obviously, addressing my concerns of early last week, they are alive and shipping. They are about to go live using [www.thegpsstore.com](http://www.thegpsstore.com) as a retailer (in one to two weeks), but Angela can take 1-each orders at 310/212-0696 until then. I paid \$135 each, but I have no idea if that's the one-each price (quantity break for 6?) or whether the price will be different from theGPSstore.

More once I have a chance to test and play.

...mike

---

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## 1095. [aprssig] FM Satellites

```

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 23 Jun 2000 17:44:42 -0400 (EDT)
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-92653-2000.06.23-16.49.17--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

Here is a one line summary of currently active FM birds that you can receive on your Mobile FM rig and mobile vertical whip antenna.  
New items:

- 1) SUNSAT is enabled for 1200 baud APRS UI Digipeating except during Voice passes.

| SAT  | DOWNLNK | UPLINK  | S | MODE               | COMMENTS               |
|------|---------|---------|---|--------------------|------------------------|
| MIR  | 145.985 | 145.985 | 9 | S FM crew voice    | Off                    |
| U011 | 145.825 |         | 4 | R FM Bell202 ASCII | Telemetry only         |
| U014 | 435.070 | 145.975 | 5 | J FM Voice rprr    | lots of fun every pass |
| A027 | 436.795 | 145.850 | 3 | J FM Voice rprr    | days only but fun      |
| S035 | 145.825 | 436.290 | 8 | B FM Voice rprr    | On once a day          |
| S035 | 145.825 | 436.290 | 8 | B 1200 bd AFSK     | APRS Digipeating       |

U022 435.120 145.900 3 J 9600 bd FSK BBS ON  
 K023 435.170 145.900 4 J 9600 bd FSK BBS ON usually  
 K025 436.500 145.980 3 J 9600 bd FSK BBS ON  
 T031 436.925 145.925 5 J 9600 bd FSK DATA ON downlinks images

\* If you dont hear it, then DONT TRANSMIT! Either the bird is dead or your station is deaf. Don't embarass yourself and QRM everyone.

Between the hours of about 6 AM to noon and 6 PM to midnight local SUN time there is usually one of these birds in view for a few minutes to keep you entertained while traveling. UHF requires +/- 5 or 10 KHz Doppler tuning. The "S" column is a subjective signal strength assessment. A 20" vertical whip in the center of your car roof will give you success as shown below. This acts as a 3/4 wave on UHF giving almost 8 dBi above 30 degrees over a good groundplane for the UHF downlink birds. For SUNSAT which operates mode B with a stronger 2m downlink and your 50 watt mobile uplink, a normal dual-band mobile antenna will do better closer to the horizon.

|                                                                                                                                      | SIG | RECEIVE             | RANGE |
|--------------------------------------------------------------------------------------------------------------------------------------|-----|---------------------|-------|
| USING THE 20" WHIP FOR MODE J PACSATS:                                                                                               | --- | -----               |       |
| As a rough approximation consider this table                                                                                         | 9   | Horizon to Horizon  |       |
| which I have subjectively determined after                                                                                           | 8   | 5 deg and above     |       |
| 3 months of daily monitoring. Home stations                                                                                          | 7   | 10 deg and above    |       |
| with 50' of RG 8 should subtract abt 3 from                                                                                          | 6   | 15 deg and above    |       |
| the signals and 5/8 or dual band, or "gain"                                                                                          | 5   | 20 deg and above    |       |
| antennas should also subtract about 2.                                                                                               | 4   | 25 deg and above    |       |
|                                                                                                                                      | 3   | 30 deg and above    |       |
| The PACSATS do not officially digipeat UI                                                                                            | 2   | 3 ele beam required |       |
| packets, but you can still see status and                                                                                            | 1   | 6 ele beam required |       |
| telemetry and the USER lists on your Kenwood                                                                                         |     |                     |       |
| data radios or any radio with 9600 baud TNC. For more info on mobile                                                                 |     |                     |       |
| satellite operations see <a href="http://web.usna.navy.mil/~bruninga/astars.html">http://web.usna.navy.mil/~bruninga/astars.html</a> |     |                     |       |

Errors, omissions, corrections welcome. I will re-post this when ever I hear of changes in status. For more detail, of course, read the AMSAT News Service bulletins and AMSAT WEB pages <http://www.amsat.org>

de WB4APR, Bob

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## 1096. [aprssig] Re: FM Satellites

From: "Brian P. Mileschosky" <n5zgt@swcp.com>  
 Date: Fri, 23 Jun 2000 16:22:23 -0600  
 To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
 Message-ID: <LYR842-92655-2000.06.23-17.27.21--lyris.aprssig#tapr.org@lists.tapr.org>  
 Rendered body type: text/plain

Just my opinion, everybody...particularly on U0-14 and A0-27 (but also on the others) please DO NOT use anything above 20 WATTS of power to get into these satellites. This goes for Field Day, and ANY other day. Why? You don't need all that power, and it prevents others from getting into the birds!

I've worked many countries and states on U0-14 and A0-27 from my front yard with my dual-band HT and Arrow antenna putting out only 2 watts. I've had QSOs on them with only 1/4 watt. I mention this to demonstrate how easy it is to get into the birds, and that anything above 20 watts is way too much.

Many Amateurs within the Amateur satellite community are trying to stress this because its getting harder and harder to use these birds due to all the Amateur using a ton of power (not literally), and talking more than listening.

> \* If you dont hear it, then DONT TRANSMIT! Either the bird is dead or your station is deaf. Don't embarass yourself and QRM everyone.

AMEN. Please don't call "CQ CQ CQ satellite" when you are not hearing anything coming from your speaker. Either you are listening to the wrong downlink frequency, or you have a bad receiving antenna. And at the same time, you are QRMing everybody else trying my make QSOs on the satellite.

The satelites are a lot of fun, particularly U0-14 and A0-27. But blanketing everyone with your 50 watts of power or not hearing anything on

the downlink while transmitting sure ruins it for the rest of the operators around the country.

Have fun this weekend, and see you all on the birds!

Respectfully and 73,  
Brian, N5ZGT

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## 1097. [aprssig] Storms

From: David VanHorn <dvanhorn@cedar.net>  
Date: Fri, 23 Jun 2000 17:48:14 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92657-2000.06.23-17.54.03--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Who is uplinking storm objects in the midwest in the form of ???SVR  
--

www.SpamWhack.com A pre-emptive strike against spam  
A tornado is a lady whose skirts you do NOT want to look up!  
Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

---

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---

## 1098. [aprssig] SUNSAT Works!

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Fri, 23 Jun 2000 22:06:24 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92680-2000.06.23-21.10.42--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

During tonight's passes and hopefully some on FieId Day, SUNSAT is in 1200 baud AX.25 packet mode for UI digipeating (No connects please!). Anyone with a TNC and 2m FM radio can receive SUNSAT downlink on 145.825. If you run APRS software then you will see everyone plotted on the map and capture all messages. Otherwise just operate in dumb terminal mode.

TO transmit, uplink 1200 baud AFSK on 436.280 at AOS and then move up through 436.290 in cener of pass and ending at 436.300 at LOS. DIgipeat via the path of SUNSAT or APRSAT.

Once you see yourself in the downlink a few times, BACKOFF and let someone else in... Everyone else will have captured you too...

de WB4APR, Bob

Forwarded message

----- Date: Fri, 23 Jun 2000 21:39:41 -0400  
From: Stephen M. King <frastephen@home.com>  
Subject: [aprssat] SUNSAT report!

Caught the SUNSAT pass this evening and caught three stations here in NJ:

WB4APR-9  
N4ZQ  
N3KTP-3  
KB0VBZ-14 (at west end of pass)  
I was very impressed by the signals through a cheapie MFJ magmount on the car roof into my D7A. I even caught a few packets with the supplied rubber duck/dummy load!

Now if I can figure out how to make this thing uplink...

73,  
Stephen  
KD3OG  
APRSDATA for Philly...

---

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## 1099. [aprssig] Re: Premptive Digipeating

From: Hamish Moffatt <hamish@cloud.net.au>  
Date: Sat, 24 Jun 2000 13:46:35 +1000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92687-2000.06.23-22.50.26--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Thu, Jun 22, 2000 at 10:56:07PM -0700, Mykle Raymond wrote:  
> There are other readers who are more interested in a next-generation  
> packet / APRS network. Preemptive Digipeating in one form or another  
> is just another band-aid on the present network. Or perhaps those  
> readers are still being distracted by the open-source discussion ;-)

The next generation won't happen without open source.

Re: pre-emptive digipeating, I think that would be very useful.  
Sometimes I'm in range of my RELAY at home, but sometimes I'm not.  
I think it would be best to just skip a digipeater, rather  
than to reorder (eg a packet to RELAY,WIDE can go straight to WIDE,  
but shouldn't then go to a RELAY).

Hamish

--

Hamish Moffatt VK3SB <hamish@debian.org> <hamish@cloud.net.au>

---

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## 1100. [aprssig] Re: Premptive Digipeating

From: Hamish Moffatt <hamish@cloud.net.au>  
Date: Sat, 24 Jun 2000 15:15:05 +1000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: aprssig@lists.tapr.org  
Message-ID: <LYR842-92712-2000.06.24-00.19.05--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Fri, Jun 23, 2000 at 10:00:58PM -0700, Brendan Keyport wrote:  
> > On Thu, Jun 22, 2000 at 10:56:07PM -0700, Mykle Raymond wrote:  
> > > There are other readers who are more interested in a next-generation  
> > > packet / APRS network. Preemptive Digipeating in one form or another  
> > > is just another band-aid on the present network. Or perhaps those  
> > > readers are still being distracted by the open-source discussion ;-)  
> >  
> > The next generation won't happen without open source.  
>  
> Then hopefully, the next generation will never happen. It'll be the  
> death of APRS.

You think APRS benefits by being locked away? I'm astonished.

Ian Wade and the APRS working group have done an excellent job  
in documenting the APRS protocol as it exists today. We're already  
seeing the benefits of that work -- Ian's APRSdec decoder has  
been used to identify the faulty packets which have been crashing  
WinAPRS. Do you think that specification should be locked away too?  
(Ian's APRSdec is open source, by the way.)

Whether you like it or not, only open protocols survive. Don't  
take my word for it, just look around the Internet today. Proprietary  
protocols are practically non-existent.

Hamish

--

Hamish Moffatt VK3SB <hamish@debian.org> <hamish@cloud.net.au>

---

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## 1101. [aprssig] Re: Premptive Digipeating

From: Brendan Keyport <bkeyport@uswest.net>  
Date: Fri, 23 Jun 2000 23:20:59 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92713-2000.06.24-01.25.27--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>On Fri, Jun 23, 2000 at 10:00:58PM -0700, Brendan Keyport wrote:  
>> >On Thu, Jun 22, 2000 at 10:56:07PM -0700, Mykle Raymond wrote:  
>> >> There are other readers who are more interested in a next-generation  
>> >> packet / APRS network. Preemptive Digipeating in one form or another  
>> >> is just another band-aid on the present network. Or perhaps those  
>> >> readers are still being distracted by the open-source discussion ;-)  
>> >  
>> >The next generation won't happen without open source.  
>>  
>> Then hopefully, the next generation will never happen. It'll be the  
>> death of APRS.  
>  
>You think APRS benefits by being locked away? I'm astonished.  
>  
>Ian Wade and the APRS working group have done an excellent job  
>in documenting the APRS protocol as it exists today. We're already  
>seeing the benefits of that work -- Ian's APRSdec decoder has  
>been used to identify the faulty packets which have been crashing  
>WinAPRS. Do you think that specification should be locked away too?  
>(Ian's APRSdec is open source, by the way.)

Program CODE should be closed source in my book. Protocal  
specifications and the like, should be available to use freely.

Two different concepts all together.

Releasing the code public will almost guarentee a stale enviroment,  
while the bickering and buck passing will grow by leaps and bounds.

Now, I'm not against people contributing a bit of well documented  
code, to an author, to use if he or she so desires, and I'm not  
against people helping to an extent, I just think that opensource  
leads to a very bad enviroment for programming (too many cooks  
stirring the pot, etc)

Further replies to this message off the sig, please.

--  
May Peace and Love be Yours,  
73 De N7UIE  
B Keyport

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## 1102. [aprssig] gps recomendation

From: r\_denis@globalnet.hn (Ricardo Denis)  
Date: Wed, 21 Jun 2000 20:08:56 -2600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92716-2000.06.24-02.07.42--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

greetings all,

i want to buy a gps unit so i can interface it to my tnc. i have no clue as  
to which one to get so could you recomend me which gps device i should  
purchase please? thank you in advance.

73 de rick

---  
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---

## 1103. [aprssig] question for the Authors

From: Bob Boehm <n8exf@juno.com>  
Date: Sat, 24 Jun 2000 03:22:55 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92717-2000.06.24-02.27.21--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

kinda dumb question, but, as of about four hours ago, I found that my new call was posted on the FCC web site... since I have registered WINAPRS and APRS+, can I just put my new call in and restart or is my call embedded and I will need to re-register??

Thanks,

Bob  
K8YS  
exN8EXF

---

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## 1104. [aprssig] Re: Premptive Digipeating

From: Hamish Moffatt <[hamish@cloud.net.au](mailto:hamish@cloud.net.au)>  
Date: Sat, 24 Jun 2000 18:34:50 +1000  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-92720-2000.06.24-03.38.49--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Fri, Jun 23, 2000 at 11:20:59PM -0700, Brendan Keyport wrote:  
> Program CODE should be closed source in my book. Protocal  
> specifications and the like, should be available to use freely.

\_SHOULD BE CLOSED\_? I can live with "should not have to be open",  
but "should be closed" is something entirely different. Instead of  
being just uninterested in open source, you're actually against it.

> Now, I'm not against people contributing a bit of well documented  
> code, to an author, to use if he or she so desires, and I'm not  
> against people helping to an extent, I just think that opensource  
> leads to a very bad enviroment for programming (too many cooks  
> stirring the pot, etc)

It is obvious from this comment that you've never worked on  
an open source project then. No offense intended, but  
there's really no point in continuing this discussion;  
you're arguing without any direct experience or facts.

73

Hamish

--

Hamish Moffatt VK3SB <[hamish@debian.org](mailto:hamish@debian.org)> <[hamish@cloud.net.au](mailto:hamish@cloud.net.au)>  
(Debian is an open source Linux distribution. All developers  
are volunteered. All work is done over the Internet. There's  
plenty of bickering, but plenty of real work gets done. We  
have lots of users. Check out <http://www.debian.org>.)

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## 1105. [aprssig] Re: Storms

From: Mark Fellhauer <[sparkfel@primenet.com](mailto:sparkfel@primenet.com)>  
Date: Sat, 24 Jun 2000 04:06:23 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-92721-2000.06.24-04.10.00--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 05:48 PM 6/23/00, David VanHorn wrote:

>Who is uplinking storm objects in the midwest in the form of ???SVR  
>--

That's a good question. Someone is "cluttering" up MY map of South  
Dakota. :) And since I am one of the two permanent APRS residents in the  
state, I feel they should be putting storm clouds somewhere else... :)

Stop making it rain on South Dakota!



73,

Mark  
KC7BXS

---

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## 1106. [aprssig] Re: \$GPWPL question

From: "Brian B. Riley" <brianbr@macconnect.com>  
Date: Sat, 24 Jun 2000 10:12:41 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92741-2000.06.24-09.17.28--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

----- Original Message -----

From: "Bob Bruninga" <bruninga@nadn.navy.mil>  
Sent: Tuesday, June 20, 2000 2:32 PM

> On Tue, 20 Jun 2000, Tim Baggett wrote:  
>  
>> Perhaps regarding APRS software and hardware it won't work the  
>> other way, but if you send a III+ a GPWPL string with a waypoint  
>> name of more than six chars. I'm certain you will find that you see  
>> the LEFTMOST 6 chars on the display.  
>  
> Yes, we agree there. But if users try to use it that way, then they  
> will have dancing Waypoints as the SSID info is lost and so the  
> waypoints will jump back and forth between all the SSID's that any  
> one person may have on the air and you cant tell which one you are  
> watching.

This strikes me as an interesting way to do "position ambiguity!"

--

Brian B. Riley, N1BQ (ex-KA2BQE)  
<<http://www.wulfden.org>>

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## 1107. [aprssig] B8BKT-1 to fly July 1/2!

From: Jim Duncan <ku0g@kcaprs.org>  
Date: Sat, 24 Jun 2000 09:51:56 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92745-2000.06.24-09.57.51--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bill Young, KB0UZQ, and I will be launching our first high-altitude  
balloon flight next weekend!

This flight will be a 1200 gram balloon with approximately 3 pound  
payload running on 144.39 MHz APRS....There will also be a tracking  
beacon (if I can get it together!) on a frequency yet-to-be-named....

Balloon is due to arrive from Kaymont by Friday (pending their own  
receipt of stock early this week). I'm assuming that I'll need two  
tanks of helium and I'd appreciate input on how to "tie off" the balloon  
and attach the payload. The parachute is the Kaymont chute....Would  
also appreciate anyone's experience with those as well....

Launch time for July 1 will be 10:00 a.m. (primary launch window)  
Launch time for July 2 will be 2:00 p.m. (secondary launch window)

Ground zero will be the National Weather Service Forecast Center at  
Pleasant Hill, Missouri. We will like launch from the field across the  
street from the center. NWSPH is located 6 miles south of U.S. 50  
Highway on Mo. 7. Look for the giant "golf ball" as you approach  
Pleasant Hill!

Any assistance with recovery/chase teams will be appreciated as well as  
pre-flight suggestions/setup/etc....

--  
73 de Jim, KU0G  
Chairman/Coordinator  
Kansas City APRS Working Group, W0APR  
First Alert Storm Team KMBC-TV9  
Mailto:ku0g@kcaprs.org  
Webpage: <http://www.kcaprs.org>

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---

## 1108. [aprssig] WinAPRS Unhandled exceptions: They're Back!

From: Mark Felhauer <[sparkfel@primenet.com](mailto:sparkfel@primenet.com)>  
Date: Sat, 24 Jun 2000 10:42:44 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-92746-2000.06.24-10.46.19--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At exactly 10:00 AM CST (on the money by NIST clock, I heard the Sioux Falls APRS I-gate ping, turning on the monitor I saw the dreaded unhandled exception error. I pressed OK and the program exited. In the last half hour I have been unable to even keep WinAPRS running. I get so many UE's that it shuts down WinAPRS on it's own. I can't even open a TCP port for a few seconds now without getting the errors. They literally cascade down the screen.

Most appear to be: Unhandled exception: c0000005 - At address 0000xxxx  
(x being variable)

I can't even get to the point where I can open the program long enough to shut off the automatic opening of the TCP ports!

This is the worst possible day for something like this to happen.

BTW, The Sioux Falls I-gate is now running Windows 2000.

Oh well,

Mark  
KC7BXS

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## 1109. [aprssig] Re: question for the Authors

From: "Jeff Brenton" <[jeffb@espi.com](mailto:jeffb@espi.com)>  
Date: Sat, 24 Jun 2000 18:06:02 -0000  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: "aprssig" <[aprssig@tapr.org](mailto:aprssig@tapr.org)>  
Message-ID: <LYR842-92754-2000.06.24-13.10.05--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In all parts of APRS registration, from programs to APRServe, the validation codes are tied to the call sign. You will have to get updated codes from the program author(s) before you put the new call in.

Jeff Brenton, Amateur Radio call sign KA9VNV  
<http://espi.com>  
Questionable web page: <http://dididahdahdidit.com>

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## 1110. [aprssig] Re: WinAPRS Unhandled exceptions: They're Back!

From: Guy Story <[kc5goi@tapr.org](mailto:kc5goi@tapr.org)>  
Date: Sat, 24 Jun 2000 19:28:13 -0500 (CDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-92776-2000.06.24-19.32.01--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Mark, tell WinAPRS to use a non-buffered feed. If you connect to a port that has a history buffer, then the offending packet will get sent right back to you when you reconnect. If you use a non-buffered feed, you will not get the bad packet unless the point of origin resends it.

73,

Guy Story  
KC5G0I  
kc5goi@tapr.org  
<http://www.kc5goi.net>

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### 1111. [aprssig] Re: WinAPRS Unhandled exceptions: They're Back!

From: Ray Vaughan <[ray@rayvaughan.com](mailto:ray@rayvaughan.com)>  
Date: Sat, 24 Jun 2000 21:30:09 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-92779-2000.06.24-20.34.04--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 07:28 PM 6/24/00 -0500, you wrote:  
>Mark, tell WinAPRS to use a non-buffered feed. If you connect to a port  
>that has a history buffer, then the offending packet will get sent right  
>back to you when you reconnect. If you use a non-buffered feed, you will  
>not get the bad packet unless the point of origin resends it.

I think the point was that it was one killer packet after another. Not the same one each time he connected. I saw the exact thing and all I use is the Port 23. They were coming in hot and heavy. Since this wave, everything has been fine. Hopefully it was someone troubleshooting and the offending packets won't be seen again.

Ray J. Vaughan, MS, CBTE, CERT  
KD4BBM PG-7-15266  
<http://www.rayvaughan.com/>  
[ray@rayvaughan.com](mailto:ray@rayvaughan.com)  
[ray@2-way.com](mailto:ray@2-way.com)

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### 1112. [aprssig] Re: WinAPRS Unhandled exceptions: They're Back!

From: "Dick Stanich" <[dstanic@c2i2.com](mailto:dstanic@c2i2.com)>  
Date: Sat, 24 Jun 2000 21:9:46  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-92780-2000.06.24-21.13.41--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Today, I recorded ERRORS from the internet feed over a 4 hour period. The errorlog.txt file shows where they were originated from, IP addresses/servers and the type of error followed by the actual error string.

Draw your own conclusions. Some of the hams have been notified. More of them prefer to ignore the problem.

This ERRORLOG is posted at <http://www.c2i2.com/~yumaprs/>

Questions or comments: [mailto:dstanic@c2i2.com](mailto:mailto:dstanic@c2i2.com)

Dick, KB7ZVA

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### 1113. [aprssig] Re: WinAPRS Unhandled exceptions: They're Back!

From: Bill Diaz <[billdiaz@megsinet.net](mailto:billdiaz@megsinet.net)>  
Date: Sat, 24 Jun 2000 21:12:43 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-92781-2000.06.24-21.16.55--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

Ray,

I saw what I think was the offending packets while viewing the data obtained by AFilter. I was connected to aprs.net:14502. Before it crashed WinAPRS and made my system unstable, I saw what appeared to be multiple 'empty' packets. That is CR/LF sequences one right after the other. I did not see any prepended address fields in the empty packets that would normally be obtained from port 14502.

Occasionally, I would see regular packets intersped with the empty ones. If this was the cause of the problem it may be that the multitude of "empty packets" and the speed at which they arrived, caused WinAPRS to overrun it's allocated buffer.

Bill KC9XG

On Saturday, June 24, 2000 8:30 PM, Ray Vaughan [SMTP:ray@rayvaughan.com] wrote:

> At 07:28 PM 6/24/00 -0500, you wrote:

> >Mark, tell WinAPRS to use a non-buffered feed. If you connect to a port  
> >that has a history buffer, then the offending packet will get sent right  
> >back to you when you reconnect. If you use a non-buffered feed, you will  
> >not get the bad packet unless the point of origin resends it.

>

> I think the point was that it was one killer packet after another. Not the  
> same one each time he connected. I saw the exact thing and all I use is the  
> Port 23. They were coming in hot and heavy. Since this wave, everything  
> has been fine. Hopefully it was someone troubleshooting and the offending  
> packets won't be seen again.

>

> Ray J. Vaughan, MS, CBTE, CERT  
> KD4BBM PG-7-15266  
> http://www.rayvaughan.com/  
> ray@rayvaughan.com  
> ray@2-way.com

>

> ---

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## 1114. [aprssig] Re: WinAPRS Unhandled exceptions: They're Back!

From: Earl Needham <KD5XB@AMSAT.ORG>

Date: Sat, 24 Jun 2000 20:43:47 -0600

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Message-ID: <LYR842-92782-2000.06.24-21.48.27--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

At 09:09 PM 6/24/00 +0000, Dick Stanich blasted the following out into the ether:

>Today, I recorded ERRORS from the internet feed over a 4 hour period. The

>errorlog.txt file shows where they were originated from, IP

>addresses/servers and the type of error followed by the actual error

>string.

>

>Draw your own conclusions. Some of the hams have been notified. More of

>them prefer to ignore the problem.

Seems to me that if they're causing problems and refuse to correct it they should be on EVERYBODY'S budlist -- they'd either get the message and fix it or else they'd not get the message and we'd have no more problems with them anyway.

7 3

Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>

Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)

PGP Key ID 0xC3FDA66E

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

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## 1115. [aprssig] PK232MBX and WinAPRS. Thanks and other questions

From: "Luis" <lbriones@arnet.com.ar>  
Date: Sat, 24 Jun 2000 23:00:12 -0300  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92783-2000.06.24-22.22.00--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi to all,

Thanks to Mike, Micheel, Alan and Jim.

The PK232MBX is WORKING!!!!

We have a little APRS (3 part time fixed stations) net. We wish to use then to track hight altitude balloons. I'm not know that exist any APRS net in Argentina. We are new in APRS and we have a lot dudes. I try to ask you in a little dose :-)

The idea is the fixed station can serve as an APRS Digipiter. We don't understand well why we can do this.  
Relay and wide are a mystery to us.  
The starions re separated about 40 km (25 miles) each in a line. One use a AGWPE and sound card (LU8YD). Another use a Kan KPC-3 TNC. This is in the center (LU6VG). And the last is using my PK232 (LU2VEA)

LU8YD listen LU6VG and a few time listen LU2VEA.  
LU6VG listen LU2VAE and LU8YD.  
LU2VEA listen LU6VG and sometimes listen LU8YD.

The idea is put in a Balloon and the Search And Rescue (SAR) Group TNC with GPSs.

How can we setting the LU8YD, LU2VA and LU6VG to watch the movils stations, that it's only listening for one of this?

73 de Luis  
LU6VG

---

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---

## 1116. [aprssig] Re: WinAPRS Unhandled exceptions: They're Back!

From: Ray Vaughan <ray@rayvaughan.com>  
Date: Sat, 24 Jun 2000 23:52:43 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92784-2000.06.24-22.56.36--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hopefully we're a step closer to finding this problem. Here's one thought.... while I've got a fatal error message up on screen, but otherwise running, could I be sending bad packets to the Internet? This was quoted on Dick's This ERRORLOG posted at <http://www.c2i2.com/~yumaprs/>

!ProcessHeader error!IGATE!KD4BBM-12>BEACON,WIDE,WIDE/V:KD4BBM Ray's Navajo SUV <kd4bbm@arri.net>

If this unhandled, and it causes more unhandled, then I can see the cause of the storm.

Has anyone else noticed this situation? Up, working, but error on screen and defective packets going out?

At 09:12 PM 6/24/00 -0500, Bill Diaz wrote:

>Ray,

> I saw what I think was the offending packets while viewing the data obtained  
>by AFilter. I was connected to aprs.net:14502. Before it crashed WinAPRS and  
>made my system unstable, I saw what appeared to be multiple 'empty' packets.  
> That is CR/LF sequences one right after the other. I did not see any  
>prepended address fields in the empty packets that would normally be obtained  
>from port 14502.

>

>Occasionally, I would see regular packets intersped with the empty ones. If  
>this was the cause of the problem it may be that the multitude of "empty  
>packets" and the speed at which they arrived, caused WinAPRS to overrun it's  
>allocated buffer.

```

>
>
>Bill KC9XG
>
>On Saturday, June 24, 2000 8:30 PM, Ray Vaughan [SMTP:ray@rayvaughan.com]
>wrote:
> > At 07:28 PM 6/24/00 -0500, you wrote:
> > >Mark, tell WinAPRS to use a non-buffered feed. If you connect to a port
> > >that has a history buffer, then the offending packet will get sent right
> > >back to you when you reconnect. If you use a non-buffered feed, you will
> > >not get the bad packet unless the point of origin resends it.
> >
> > I think the point was that it was one killer packet after another. Not the
> > same one each time he connected. I saw the exact thing and all I use is the
> > Port 23. They were coming in hot and heavy. Since this wave, everything
> > has been fine. Hopefully it was someone troubleshooting and the offending
> > packets won't be seen again.
> >
> > Ray J. Vaughan, MS, CBTE, CERT
> > KD4BBM PG-7-15266
> > http://www.rayvaughan.com/
> > ray@rayvaughan.com
> > ray@2-way.com
> >
> > ---
> > You are currently subscribed to aprssig as: BILLDIAZ@MEGSINET.NET
> > To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
>
>---
>You are currently subscribed to aprssig as: ray@rayvaughan.com
>To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

```

```

Ray J. Vaughan, MS, CBTE, CERT
KD4BBM PG-7-15266
http://www.rayvaughan.com/
ray@rayvaughan.com
ray@2-way.com

```

```

---
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```

## 1117. [aprssig] Bait Bucket-1 flight rescheduled...

```

From: Jim Duncan <ku0g@kcaprs.org>
Date: Sat, 24 Jun 2000 23:57:36 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-92797-2000.06.25-00.03.03--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

Somewhere along the line I didn't get the message about the Manhattan launches on July 1st, so BaitBucketOne will NOT fly on July 1st. We will plan for a launch on Sunday afternoon, July 2nd, approximately 1400 CDT from Pleasant Hill, Mo., National Weather Service Forecast Center.

```

--
73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group, W0APR
First Alert Storm Team KMBC-TV9
Mailto:ku0g@kcaprs.org
Webpage: http://www.kcaprs.org

```

```

---
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```

## 1118. [aprssig] KPC-2 and errors

```

From: "Jake" <jake@trib.com>
Date: Sat, 24 Jun 2000 23:31:27 -0600
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-92798-2000.06.25-00.32.50--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

On looking at the list at <http://www.c2i2.com/~yumaprs/> and doing some major checking, I found the screenln on the kj7az I-Gate set to 80. I couldn't find any problems elsewhere in the local system. The screenln is now set to 0 and permed into the TNC. I am using an older kpc-2 on the igate and it had been reset not long ago by a lighting storm. Counting the characters on my packets at <http://www.c2i2.com/~yumaprs/>, most of them were 80 characters

long. I believe the checksum is at the end of the packet and the checksum was being cut off on each.

Hopefully I hope this solves the problem of errors from my station. I don't expect it to fix all errors but I hope it fixes the current ones.

Thanks to those who helped.

73 Tim/KJ7AZ

---

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---

## 1119. [aprssig] Re: WinAPRS Unhandled exceptions: They're Back!

From: Ian Wade <Ian.Wade@care4free.net>  
Date: Sun, 25 Jun 2000 10:08:38 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92825-2000.06.25-04.12.53--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In article <LYR14778-92784-2000.06.24-22.56.36--Ian.Wade#care4free.net@lists.tapr.org>, Ray Vaughan <ray@rayvaughan.com> writes  
>

>At 09:12 PM 6/24/00 -0500, Bill Diaz wrote:

>>Ray,

>> I saw what I think was the offending packets while viewing the data obtained  
>>by AFilter. I was connected to aprs.net:14502. Before it crashed WinAPRS and  
>>made my system unstable, I saw what appeared to be multiple 'empty' packets.  
>> That is CR/LF sequences one right after the other. I did not see any  
>>prepended address fields in the empty packets that would normally be obtained  
>>from port 14502.

I've seen something like this on a few occasions in the past (and reported it in this list). Apparently raw TNC commands are escaping out of WinAPRS -- in this case, someone hitting the Enter key several times.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| <APRSdec> APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

---

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---

## 1120. [aprssig] Re: WinAPRS Unhandled exceptions: They're Back!

From: Ian Wade <Ian.Wade@care4free.net>  
Date: Sun, 25 Jun 2000 10:00:37 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92826-2000.06.25-04.13.08--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In article <LYR14778-92780-2000.06.24-21.13.41--Ian.Wade#care4free.net@lists.tapr.org>, Dick Stanich <dstanic@c2i2.com> writes

>Today, I recorded ERRORS from the internet feed over a 4 hour period. The  
>errorlog.txt file shows where they were originated from, IP  
>addresses/servers and the type of error followed by the actual error  
>string.

>

>Draw your own conclusions. Some of the hams have been notified. More of  
>them prefer to ignore the problem.

>

>This ERRORLOG is posted at <http://www.c2i2.com/~yumaprs/>

Dick, I played this through a modified version of <APRSdec> to (hopefully) get

some more clues.

First, the modification: insert these 4 lines into <APRSdec> 2.0, after line 680 (i.e. just before printing the long line of dashes and the record number):

```
~~~~~
if (substr($line, 0, 1) eq "!")
{
 # afilter error line
 $line = substr($line, index($line, "!",1)+1);
}
~~~~~
```

This strips out the afilter error message header delimited by "!", restoring the lines to their original form.

Now some conclusions (concentrating on the errors that appear to have knock-on effects downstream -- there are also many bad packets which look like simple user error, not included here). Although the error log is approaching 2000 lines long, there are only a few distinct categories of error:

1. There are many GPS NMEA checksum errors. These arise from lines being truncated at 80 characters. Two stations with reported errors (KJ7AZ-1 and WA7LFT) are located very close to each other (approx 41deg 48min N 107deg 14min W) -- do they feed into the same IGate that is doing the truncating?

PLEASE everyone, check your PACLEN. It should be 0 (zero).

2. Many packets have a header but no data, and many other packets have data without header. Do they belong together, and what splits them?

3. Apparent third-party packets without headers; e.g.

```
-----
Record #48
}VE3NEC*>APRX45,GATE,WIDE::VA3HR      :ack33
**WARNING: Invalid callsign '}VE3NEC'.
APRS Data Type= Message

-----
Record #101
}VA3HR>APR842,TCPIP*,N6EX-3*::NOCALL   :VE3MIS, VA3HR. You are sending NOCALL
as a Callsign string. Please {37
**WARNING: Invalid callsign '}VA3HR'.
APRS Data Type= Message

-----
```

Question: does anyone know if these really were third-party packets, or has some other parsing error crept in somewhere?

4. Extraneous junk in header. Many packets from these stations:

```
-----
Record #115
K3SWJ-1>N5IUT* <UI,APRX46,W5TQ::N5SMN   :ack23
**WARNING: Extraneous TNC status information/junk in header.
APRS Data Type= Message

-----
Record #116
N5SMN>N5IUT* <UI,AP0922,W5TQ::K3SWJ-1  :?APRST
**WARNING: Extraneous TNC status information/junk in header.
APRS Data Type= Message
Query for trace (route) taken to reach the target.

-----
Record #146
KM5CA-5>WIDE <UI,APW245,N5IUT*:=2928.05N/09829.10W_PHG3151/WinAPRS 2.4.5 -
TXBEXSN. ANTO-245-<520>
**WARNING: Extraneous TNC status information/junk in header.
```



```
**WARNING: Invalid callsign 'WIDE'.
APRS Data Type= Posit w/o time. With APRS
Lat= 29 deg 28.05 min N Long= 98 deg 29.10 min W
Icon= WX station Overlay= (none)
Power= 9 watts Height above average terrain= 20 feet (6.1 meters)
Gain= 5 dB Range Circle= 6.9 miles (11.1 km) Directivity= North East
```

-----

Somebody's TNC near K3SWJ/N5SMN/N5UIT/W5TQ/KM5CA is not set up properly (and broken software is unable to parse headers containing <UI> or similar -- these are not illegal).

5. Raw TNC commands escaping to the outside world:

-----

Record #264  
D01BJ>APZMYK,WIDE:UNPROTO APRS  
\*\*BAD APRS DATA TYPE IDENTIFIER. Bailing out.

-----

Record #289  
D01BJ>APZMYK,WIDE:conv  
\*\*BAD APRS DATA TYPE IDENTIFIER. Bailing out.

-----

The unprintable characters (following ":") are 0x03 (i.e. CTRL-C).

6. Which software detects an invalid callsign, THEN FORWARDS THE PACKET? For crying out loud:

-----

Record #337  
[invalid]>APRS,N3HPY-2,W2HE,WX3P,KB2WYA\*:!4111.U6N\07549.06W#/WIDE-RELAY AT  
BEAR CREEK PA, 25 WATTS 6 DB VERTICAL 2100 FT ASL  
\*\*WARNING: Invalid callsign '[invalid]'.  
APRS Data Type= Posit w/o time. No APRS  
Lat= \*\*BAD LAT Long= 75 deg 49.06 min W  
Icon= Star (green) Overlay= (none)

-----

7. Several packets concatenated together. Input buffer overrun? Is the code expecting CRLF line terminators but only getting LF, thus missing end of line?

73  
Ian, G3NRW  
Technical Editor, APRS Protocol Specification

--

```
+-----+
| APRS on 144.800 [I0915X] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| <APRSdec> APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

---

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---

## 1121. [aprssig] More Errors Caused Unhandled Exception.

From: "Jake" <jake@trib.com>  
Date: Sun, 25 Jun 2000 03:21:26 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92827-2000.06.25-04.22.46--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I saw this one happen,

In the INITTAPR.TNC file, 8BIT is set to ON. I used this file to set up an INITVHF.TNC file and left 8BIT ON in the new file. The TNC started sending junk to the net and I got an unhandled exception. This was at about 3am mountain time. I reset 8BIT to OFF and the junk went away at least from the TNC. 8BIT was set to off in the TNC to start with. I'm using a KPC-2 on the I-Gate. Also in the original INITTAPR.TNC, PACLEN is set to 128. This is all just something to watch and I just found these by accident, they weren't problems that had caused previous unhandled exceptions.

73 Tim/KJ7AZ

---

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---

## 1122. [aprssig] Re: WinAPRS Unhandled exceptions: They're Back!

From: Bill Diaz <billdiaz@megsinet.net>  
Date: Sun, 25 Jun 2000 07:39:41 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92836-2000.06.25-07.44.39--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Ian,  
see comments below

Bill KC9XG

On Sunday, June 25, 2000 4:01 AM, Ian Wade [SMTP:Ian.Wade@care4free.net] wrote:

```
> In article <LYR14778-92780-2000.06.24-21.13.41--
> Ian.Wade#care4free.net@lists.ta
> pr.org>, Dick Stanich <dstanic@c2i2.com> writes
> >Today, I recorded ERRORS from the internet feed over a 4 hour period. The
> >errorlog.txt file shows where they were originated from, IP
> >addresses/servers and the type of error followed by the actual error
> >string.
> >
> >Draw your own conclusions. Some of the hams have been notified. More of
> >them prefer to ignore the problem.
> >
> >This ERRORLOG is posted at http://www.c2i2.com/~yumaprs/
>
>
> Dick, I played this through a modified version of <APRSdec> to (hopefully)
> get
> some more clues.
>
> First, the modification: insert these 4 lines into <APRSdec> 2.0, after line
> 680 (i.e. just before printing the long line of dashes and the record
> number):
>
>
> ~~~~~
> if (substr($line, 0, 1) eq "!")
> {
>     # afilter error line
>     $line = substr($line, index($line, "!",1)+1);
> }
> ~~~~~
```

```
>
> This strips out the afilter error message header delimited by "!", restoring
> the lines to their original form.
```

Some packets arrive with no header, and the first char may be an exclamation point. APRSDec should check to see if a header exists before removing text beginning with the exclamation point.

AFilter also embeds a short error message between the exclamation points. This is the first error encountered.

```
>
>
> Now some conclusions (concentrating on the errors that appear to have knock-
> on
> effects downstream -- there are also many bad packets which look like simple
> user error, not included here). Although the error log is approaching 2000
```

```

> lines long, there are only a few distinct categories of error:
>
>
>
> 1. There are many GPS NMEA checksum errors. These arise from lines being
> truncated at 80 characters. Two stations with reported errors (KJ7AZ-1 and
> WA7LFT) are located very close to each other (approx 41deg 48min N 107deg
> 14min
> W) -- do they feed into the same IGate that is doing the truncating?

Check the AFilter error message to see who gated the packet. KJ7AZ saw Dick's
errorlog post, and immediately applied the necessary corrections.
!12.23.104.48:KJ7AZ GPRMC ChkSum
error!KJ7AZ-1>GPSLV:$GPRMC,011729,A,4147.260,N,10714.565,W,000.0,360.0,25060
0,011.9,E*

>
> PLEASE everyone, check your PACLEN. It should be 0 (zero).
>
>
>
> 2. Many packets have a header but no data, and many other packets have data
> without header. Do they belong together, and what splits them?

Many packets are sent with empty information fields.
One APRS application occasionally sends status text without a header. If you
look at errorlog.txt you can determine which application does this.
The majority of the partial packets are caused by improper TNC settings, such
as PACLEN or SCREENLN.

>
>
> 3. Apparent third-party packets without headers; e.g.
> -----
> Record #48
> }VE3NEC*>APRX45,GATE,WIDE::VA3HR :ack33
> **WARNING: Invalid callsign '}VE3NEC'.
> APRS Data Type= Message
>
> -----
> Record #101
> }VA3HR>APR842,TCPIP*,N6EX-3*::NOCALL :VE3MIS, VA3HR. You are sending NOCALL
> as a Callsign string. Please {37
> **WARNING: Invalid callsign '}VA3HR'.
> APRS Data Type= Message
>
> -----
>
> Question: does anyone know if these really were third-party packets, or has
> some other parsing error crept in somewhere?

This is an improperly parsed 3rd party packet. Happens all of the time. If
the port 14502 URL has a call, AFilter can trap all packets originated or pa
ssed by this call, and you can sometimes see the original packet.

>
>
>
>
> 4. Extraneous junk in header. Many packets from these stations:
>
> -----
> Record #115
> K3SWJ-1>N5IUT* <UI,APRX46,W5TQ::N5SMN :ack23
> **WARNING: Extraneous TNC status information/junk in header.
> APRS Data Type= Message
>
> -----
> Record #116
> N5SMN>N5IUT* <UI,AP0922,W5TQ::K3SWJ-1 :?APRST
> **WARNING: Extraneous TNC status information/junk in header.
> APRS Data Type= Message
> Query for trace (route) taken to reach the target.
>
> -----
> Record #146
> KM5CA-5>WIDE <UI,APW245,N5IUT*:=2928.05N/09829.10W_PHG3151/WinAPRS 2.4.5 -
> TXBEXSN. ANTO-245-<520>
> **WARNING: Extraneous TNC status information/junk in header.

```

```

> **WARNING: Invalid callsign 'WIDE'.
> APRS Data Type= Posit w/o time. With APRS
> Lat= 29 deg 28.05 min N Long= 98 deg 29.10 min W
> Icon= WX station Overlay= (none)
> Power= 9 watts Height above average terrain= 20 feet (6.1 meters)
> Gain= 5 dB Range Circle= 6.9 miles (11.1 km) Directivity= North East
>
> -----
>
> Somebody's TNC near K3SWJ/N5SMN/N5UIT/W5TQ/KM5CA is not set up properly (and
> broken software is unable to parse headers containing <UI> or similar --
> these
> are not illegal).

```

<UI> is not illegal to display. However, it serves no purpose in an APRS packet placed on the Internet feed, and consumes bandwidth. Some applications truncate <UI> to <UI>.

At least one IGATE application is converting AEA packet headers incorrectly. This application replaces the '>' with commas for all vias, and does not correctly assign the ToCall.

```

KM5CA-5>WIDE <UI,APW245,N5IUT*:=2928.05N/09829.10W_PHG3151/WinAPRS 2.4.5 -
The original packet may have looked like this :
KM5CA-5>WIDE>N5IUT*>APW245,:=2928.05N/09829.10W_PHG3151/WinAPRS 2.4.5 -

```

BTW, if you look at the original packet placed in ErrorLog by AFilter, you will see where these packets originated :

```

!24.26.227.20:N0VH-5 Header error!KM5CA-5>WIDE
<UI,APW245,N5IUT*:=2928.05N/09829.10W_PHG3151/WinAPRS 2.4.5 -TXBEXSN.
ANT0-245-<520>

```

```

>
>
>
> 5. Raw TNC commands escaping to the outside world:
> -----
> Record #264
> D01BJ>APZMYK,WIDE:UNPROTO APRS
> **BAD APRS DATA TYPE IDENTIFIER. Bailing out.
>
> -----
> Record #289
> D01BJ>APZMYK,WIDE:conv
> **BAD APRS DATA TYPE IDENTIFIER. Bailing out.
>
> -----
>
> The unprintable characters (following ":",) are 0x03 (i.e. CTRL-C).

```

This station continually sends packets with control characters. Have not yet seen an APRS packet from him.

```

>
>
>
>
> 6. Which software detects an invalid callsign, THEN FORWARDS THE PACKET? For
> crying out loud:
> -----
> Record #337
> [invalid]>APRS,N3HPY-2,W2HE,WX3P,KB2WYA*!:4111.U6N\07549.06W#/WIDE-RELAY AT
> BEAR CREEK PA, 25 WATTS 6 DB VERTICAL 2100 FT ASL
> **WARNING: Invalid callsign '[invalid]'.
> APRS Data Type= Posit w/o time. No APRS
> Lat= **BAD LAT Long= 75 deg 49.06 min W
> Icon= Star (green) Overlay= (none)
>
> -----
>
>
>
> 7. Several packets concatenated together. Input buffer overrun? Is the code
> expecting CRLF line terminators but only getting LF, thus missing end of
line?
>
>
>
>
>

```

```

>
> 73
> Ian, G3NRW
> Technical Editor, APRS Protocol Specification
>
> --
> +-----+
> | APRS on 144.800 [IO91SX] ~55km/35 miles NNW of London |
> | email: g3nrw@arrl.net |
> | |
> | APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
> | <APRSdec> APRS DECODER: http://www.netro.co.uk/aprs.htm |
> +-----+
>
> ---
> You are currently subscribed to aprssig as: BILLDIAZ@MEGSINET.NET
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

```

---

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

## 1123. [aprssig] Re: WinAPRS Unhandled exceptions: They're Back!

From: Bill Diaz <billdiaz@megsinet.net>  
Date: Sun, 25 Jun 2000 08:56:47 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92837-2000.06.25-09.00.46--lyris.aprssig@lists.tapr.org>  
Rendered body type: text/plain

The following packets illustrate the 3rd party header error.

```

!12.23.104.69:KJ7AZ !KJ7AZ>APW247,TCPIP*::W9DUP :ack000
!12.23.104.69:KJ7AZ
!KJ7AZ-1>GPSLV,WIDE3-3:$GPRMC,132759,A,4147.262,N,10714.569,W,000.0,172.8,25
0600,011.9,E*62
!198.4.241.156:W9DA !}KJ7AZ>APW247,TCPIP*::W9DUP :ack000

```

W9DA has passed a packet originated from KJ7AZ, but has not properly parsed a 3rd party packet.

The following packets illustrate that an application is not sending a header.

```

!12.23.104.69:KJ7AZ
!WA7LFT>GPSLK,RELAY,WIDE:$GPRMC,132524,A,4148.233,N,10714.271,W,000.0,145.1,
250600,011.8,E*63
!12.23.104.69:KJ7AZ !=4147.25N/10714.56WIPHG2150/WinAPRS 2.4.7 -WYCARRAWLINS
-247-<530>

```

snip

```

!12.23.104.69:KJ7AZ
!KJ7AZ-1>GPSLV,WIDE3-3:$GPRMC,133515,A,4147.256,N,10714.568,W,000.0,172.8,25
0600,011.9,E*6F
!12.23.104.69:KJ7AZ
!WA7LFT>GPSLK,RELAY,WIDE:$GPRMC,133523,A,4147.622,N,10712.748,W,001.3,206.2,
250600,011.8,E*62
!12.23.104.69:KJ7AZ !KJ7AZ>APW247,TCPIP*:=4147.25N/10714.56WIPHG2150/WinAPRS
2.4.7 -WYCARRAWLINS -247-<530>
!12.23.104.69:KJ7AZ !=4147.25N/10714.56WIPHG2150/WinAPRS 2.4.7 -WYCARRAWLINS
-247-<530>

```

snip

```

!12.23.104.69:KJ7AZ
!WA7LFT>GPSLK,RELAY*,WIDE:$GPRMC,134023,A,4147.627,N,10712.727,W,000.0,206.2,
250600,011.8,E*6E
!12.23.104.69:KJ7AZ !KJ7AZ>APW247,TCPIP*:=4147.25N/10714.56WIPHG2150/WinAPRS
2.4.7 -WYCARRAWLINS -247-<530>
!12.23.104.69:KJ7AZ !=4147.25N/10714.56WIPHG2150/WinAPRS 2.4.7 -WYCARRAWLINS
-247-<530>
!second.aprs.net:IGATE !KJ7AZ>APW247,TCPIP*:=4147.25N/10714.56WIPHG2150/WinAPRS
2.4.7 -WYCARRAWLINS -247-<530>

```

I don't think that KJ7AZ can do anything to eliminate this error.

Bill KC9XG

---

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

---

## 1124. [aprssig] Watching Callsigns (Unhandled Expression)

From: "Jake" <jake@trib.com>  
Date: Sun, 25 Jun 2000 09:52:47 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92844-2000.06.25-10.54.04--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Some time ago, I had to do a re-program one of my digis. I took a disk and computer with me and just uploaded the setup to the TNC onsite. I didn't know it at the time and I didn't check at the time but the callsign was the same as the I-Gate. When I got home the screen on the I-Gate was filled with unhandled expressions. They didn't go away, even offline of the net, until I found the problem and changed the callsign at the digi.

A couple weeks ago I was experamenting with Dosaprs on a new laptop and again I inadvertently put in the same callsign as the I-Gate again and the same thing happened, even on a winaprs laptop in a different vehicle. That is part of the reason I changed the I-Gate callsign to KJ7AZ rather than KJ7AZ-2 and also change all my remote passwords to words rather than callsigns.

This is just to pass the info along as something else to watch concerning Unhandled Expression Errors. I didn't pass this on at the time because I didn't feel it was important.

An error remedy section concerning unhandled exceptions should be compiled and put somewhere such as the APRS docs or the didadida site (which has an excellent library of documentation) for people who suspect they are having a problem.

73 Tim/KJ7AZ

---

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---

## 1125. [aprssig] earthmate modification

From: Ronald Armstrong <roarmst@videotron.ca>  
Date: Sun, 25 Jun 2000 11:42:05 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92845-2000.06.25-11.01.17--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Where can I find the modification for the Earthmate to work with TNC.

Ronald VE2JOR

---

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

---

## 1126. [aprssig] Now for the inevitable dumb question.

From: "Jake" <jake@trib.com>  
Date: Sun, 25 Jun 2000 10:08:52 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92847-2000.06.25-11.10.12--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

How do I get rid of those annoying track lines on a winaprs mobile? They seem to connect ponts I have been too.

73 Tim/KJ7AZ

---

You are currently subscribed to aprssig as: lyris.aprssig@tapr.org  
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

---

## 1127. [aprssig] Re: earthmate modification

From: "BlitzK / XENU" <xenu@tampabay.rr.com>  
Date: Sun, 25 Jun 2000 12:18:53 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92849-2000.06.25-11.22.59--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain  
<http://www.c2-tech.com/~steveb/ka9mva/earthmate.htm>

----- Original Message -----

From: "Ronald Armstrong" <roarmst@videotron.ca>  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Sent: Sunday, June 25, 2000 11:42 AM  
Subject: [aprssig] earthmate modification

> Where can I find the modification for the Earthmate to work with  
> TNC.  
>  
>  
> Ronald VE2JOR  
>  
>  
> ---  
> You are currently subscribed to aprssig as: xenu@tampabay.rr.com  
> To unsubscribe send a blank email to leave-aprssi-842K@lists.tapr.org  
>  
>

---  
You are currently subscribed to aprssig as: lyris.aprssi#tapr.org  
To unsubscribe send a blank email to leave-aprssi-842K@lists.tapr.org

---

## 1128. [aprssig] New findu feature

From: Steve Dimse <k4hg@tapr.org>  
Date: Sun, 25 Jun 2000 12:28:58 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92850-2000.06.25-11.33.23--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The latest cgi I have placed on findu.com allows display of current conditions at the 20 closest stations to a location (may be an APRS station, a zip code, or a lat/lon).

<http://www.findu.com/cgi-bin/nearwx.cgi?call=k4hg>

<http://www.findu.com/cgi-bin/nearwx.cgi?zip=33042>

<http://www.findu.com/cgi-bin/nearwx.cgi?lat=24&lon=-81>

Steve K4HG

---  
You are currently subscribed to aprssig as: lyris.aprssi#tapr.org  
To unsubscribe send a blank email to leave-aprssi-842K@lists.tapr.org

---

## 1129. [aprssig] Re: New findu feature

From: Steve Dimse <k4hg@tapr.org>  
Date: Sun, 25 Jun 2000 12:45:39 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92853-2000.06.25-11.49.59--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Ooops, the cgi is wxnear.cgi, sorry

On 6/25/00 12:28 PM Steve Dimse (k4hg@tapr.org) wrote:

>The latest cgi I have placed on findu.com allows display of current  
>conditions at the 20 closest stations to a location (may be an APRS  
>station, a zip code, or a lat/lon).  
>  
><http://www.findu.com/cgi-bin/wxnear.cgi?call=k4hg>  
>  
><http://www.findu.com/cgi-bin/wxnear.cgi?zip=33042>  
>  
><http://www.findu.com/cgi-bin/wxnear.cgi?lat=24&lon=-81>  
>  
>Steve K4HG  
>

>---  
>You are currently subscribed to aprssig as: k4hg@tapr.org  
>To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org  
>

---  
You are currently subscribed to aprssig as: lyris.aprssig@tapr.org  
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

---

### 1130. [aprssig] RE: WinAPRS Unhandled exceptions: They're Back!

From: "Jimmy Burkhalter" <kb5wio@tcac.net>  
Date: Sun, 25 Jun 2000 12:48:04 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92856-2000.06.25-12.51.54--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

When you get these errors one of the first things you should is shut down your computer as when WinAPRS crashes it leaves trash in memory which will cause more crashes. A complete shut down is what I do and get fewer crashes.

Jimmy Burkhalter        KB5WIO  
Amarillo, Texas

kb5wio@tcac.net

35:9:6 N 101:52:332 W

> -----Original Message-----  
> From: bounce-aprssig-2220@lists.tapr.org  
> [mailto:bounce-aprssig-2220@lists.tapr.org]On Behalf Of Mark Fellhauer  
> Sent: Saturday, June 24, 2000 10:43 AM  
> To: TAPR APRS Special Interest Group  
> Subject: [aprssig] WinAPRS Unhandled exceptions: They're Back!  
>  
>  
>  
> At exactly 10:00 AM CST (on the money by NIST clock, I heard the Sioux  
> Falls APRS I-gate ping, turning on the monitor I saw the dreaded  
> unhandled  
> exception error. I pressed OK and the program exited. In the last half  
> hour I have been unable to even keep WinAPRS running. I get so many UE's  
> that it shuts down WinAPRS on it's own. I can't even open a TCP  
> port for a  
> few seconds now without getting the errors. They literally cascade down  
> the screen.  
>  
> Most appear to be: Unhandled exception: c0000005 - At address 0000xxxx  
> (x being variable)  
>  
> I can't even get to the point where I can open the program long enough to  
> shut off the automatic opening of the TCP ports!  
>  
> This is the worst possible day for something like this to happen.  
>  
> BTW, The Sioux Falls I-gate is now running Windows 2000.  
>  
> Oh well,  
>  
> Mark  
> KC7BXS  
>  
>  
> ---  
> You are currently subscribed to aprssig as: KB5WIO@TCAC.NET  
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org  
>

---  
You are currently subscribed to aprssig as: lyris.aprssig@tapr.org  
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

---

### 1131. [aprssig] Re: More Errors Caused Unhandled Exception.



From: "Brian B. Riley" <brianbr@macconnect.com>  
Date: Sun, 25 Jun 2000 13:53:58 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92857-2000.06.25-12.57.28--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I believe this may cause a problem with MicE stuff. I am not sure.  
Mic-E uses some non-printable characters but I am not sure if its is  
high bit set or just the non-printing characters of the 7 bit set.

--

Brian B. Riley, N1BQ (ex-KA2BQE)  
<<http://www.wulfden.org>>

----- Original Message -----

From: "Jake" <jake@trib.com>  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Sent: Sunday, June 25, 2000 5:21 AM  
Subject: [aprssig] More Errors Caused Unhandled Exception.

> I saw this one happen,  
>  
> In the INITTAPR.TNC file, 8BIT is set to ON. I used this file to  
set up an  
> INITVHF.TNC file and left 8BIT ON in the new file. The TNC started  
sending  
> junk to the net and I got an unhandled exception. This was at about  
3am  
> mountain time. I reset 8BIT to OFF and the junk went away at least  
from the  
> TNC. 8BIT was set to off in the TNC to start with. I'm using a  
KPC-2 on  
> the I-Gate. Also in the original INITTAPR.TNC, PACLEN is set to  
128. This  
> is all just something to watch and I just found these by accident,  
they  
> weren't problems that had caused previous unhandled exceptions.  
>  
> 73 Tim/KJ7AZ  
>  
>  
>  
> ---  
> You are currently subscribed to aprssig as: brianbr@macconnect.com  
> To unsubscribe send a blank email to  
leave-aprssi-842K@lists.tapr.org  
>

---

You are currently subscribed to aprssig as: lyris.aprssi#tapr.org  
To unsubscribe send a blank email to leave-aprssi-842K@lists.tapr.org

---

## 1132. [aprssig] Re: New findu feature

From: "Brian B. Riley" <brianbr@macconnect.com>  
Date: Sun, 25 Jun 2000 14:14:19 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92859-2000.06.25-13.17.27--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

the first one you mentioned "nearwx.cgi" works just fine

--

Brian B. Riley, N1BQ (ex-KA2BQE)  
<<http://www.wulfden.org>>

----- Original Message -----

From: "Steve Dimse" <k4hg@tapr.org>  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Sent: Sunday, June 25, 2000 12:45 PM  
Subject: [aprssig] Re: New findu feature

> Ooops, the cgi is wxnear.cgi, sorry  
>  
> On 6/25/00 12:28 PM Steve Dimse (k4hg@tapr.org) wrote:  
>

```

> >The latest cgi I have placed on findu.com allows display of
current
> >conditions at the 20 closest stations to a location (may be an APRS
> >station, a zip code, or a lat/lon).
> >
> >http://www.findu.com/cgi-bin/wxnear.cgi?call=k4hg
> >
> >http://www.findu.com/cgi-bin/wxnear.cgi?zip=33042
> >
> >http://www.findu.com/cgi-bin/wxnear.cgi?lat=24&lon=-81
> >
> >Steve K4HG
> >
> >---
> >You are currently subscribed to aprssig as: k4hg@tapr.org
> >To unsubscribe send a blank email to
leave-aprssig-842K@lists.tapr.org
> >
> >
> >---
> >You are currently subscribed to aprssig as: brianbr@macconnect.com
> >To unsubscribe send a blank email to
leave-aprssig-842K@lists.tapr.org
>

```

```

---
You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

```

---

### 1133. [aprssig] Re: New findu feature

```

From: Steve Dimse <k4hg@tapr.org>
Date: Sun, 25 Jun 2000 14:14:51 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-92860-2000.06.25-13.19.16--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

On 6/25/00 2:14 PM Brian B. Riley (brianbr@macconnect.com) wrote:

```

>the first one you mentioned "nearwx.cgi" works just fine
>
I made an alias to cover my error, but it will go away eventually, you
should only bookmark wxnear.cgi.

```

Steve K4HG

```

---
You are currently subscribed to aprssig as: lyris.aprssig@tapr.org
To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

```

---

### 1134. [aprssig] WinAPRS Mapping Software

```

From: "William A. Carreira Jr." <n1nfc@hotmail.com>
Date: Sun, 25 Jun 2000 15:05:04 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-92865-2000.06.25-14.09.48--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

Hi,  
I have been away at sea for the past 80 days, so if I sound behind the times  
I apologize. I am looking to find out if there are any other CD software  
mapping programs that have been made compatible with WINAPRS besides  
Precision Mapping 3. I am unable to acquire a copy of the older version. I  
am very interested in installing one in my laptop for portable operations.  
Any help is appreciated.

73 de

Bill Carreira Jr.      Email:n1nfc@hotmail.com  
CAPT NREMT-I            :captkfd308@aol.com  
KINGSLAND FIRE RESCUE  
Kingsland, GA 31548

HOME PAGES:  
<http://www.eagnet.com/edipage/user/n1nfc/n1nfc.htm>  
<http://www.eagnet.com/edipage/areaserv/kfd/kingsland.htm>

ICQ WORLD WIDE PAGER: <http://wpp.mirabilis.com/944831>

"The fire pentahedron consists of: Oxygen, Heat, Fuel, Chemical Chain Reaction, and the Chief. Take any one of the 5 away and the fire goes out!"  
[Attachment: Willaim A Carreria, Jr..vcf; text/x-vcard; 694 bytes]

---

### 1135. [aprssig] RE: WinAPRS Unhandled exceptions: They're Back!

From: Bill Diaz <billdiaz@megsinet.net>  
Date: Sun, 25 Jun 2000 15:35:45 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92877-2000.06.25-15.39.54--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

These headers appear to have a problem :  
!128.143.206.46:KG4IJB !KG4IJB-7>S8PW1R,RELAY/1: <<UI>>: `j6Dl v/  
!128.143.206.46:KG4IJB !KE4HTM>APW246,KF4UCI-3\*,WIDE6-1/1:  
<<UI>>:=3545.61N/08140.60W-PHG2020/Jamie in Morganton, NC  
-NCBURMORGANTO-246-<530>  
!128.143.206.46:KG4IJB !WB4IUY>APR810,KF4UCI-3\*,WIDE6-1/1:  
<UI>:=3555.35N/07822.24W-PHG5496/ Dave nr Youngsville, NC-810-  
!128.143.206.46:KG4IJB !N6YMF>APRS,WB4Q0J-5,KD4ZB-3,KF4UCI-3\*/1:  
<UI>:=3718.10N/07952.80W-PHG4130 Roanoke County, VA  
!128.143.206.46:KG4IJB !WR4BEG>APRS,WA4BWB-3,KD4ZB-3,KF4UCI-3\*,TRACE3/1:  
<UI>:13620.69NN07954.36W-PHG7660 20 miles N of Greensboro, NC W-R-T digi  
!128.143.206.46:KG4IJB !WB4IUY>APR810,KF4UCI-3\*,WIDE6-1/1: <UI>:>172209z  
wb4iuy@wb4iuy.#rtp.nc.usa.noam  
!128.143.206.46:KG4IJB !aprsdCHO>APRS,TCPIP\*:13801.95N/07829.99W aprsd:IGATE  
Powered by Penguins - Charlottesville, VA cbyam@virginia.edu

The inclusion of a semi-colon in the header may cause some applications to fail to decode the information field properly.

Bill KC9XG

---

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

---

### 1136. [aprssig] Disk problem here

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Sun, 25 Jun 2000 14:39:40 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: trombone-l@lists.missouri.edu, cdt-l <cdt-l@backcountry.net>,  
clovis\_nm\_astronomy@egroups.com, propnet@greeceny.com  
Message-ID: <LYR842-92880-2000.06.25-15.45.22--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I have had a hard drive problem, and lost my entire IN box, including messages saved about all kinds of stuff. Those of you that I have been in conversation with may need to resend any messages from the past several days.

7 3  
Earl

Earl Needham, KD5XB      mailto:KD5XB@AMSAT.ORG  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)  
PGP Key ID 0xC3FDA66E

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

---

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

---

### 1137. [aprssig] Re: earthmate modification

From: Steve Bragg <steveb@c2-tech.com>  
Date: Sun, 25 Jun 2000 15:52:53 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92881-2000.06.25-15.54.40--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Ronald Armstrong wrote:

>  
> Where can I find the modification for the Earthmate to work with  
> TNC.



#### 1140. [aprssid] APRS+SA v1.99 YC posted

From: "Brent Hildebrand" <[bhildebrand@earthlink.net](mailto:bhildebrand@earthlink.net)>  
Date: Sun, 25 Jun 2000 15:40:32 -0700  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-92891-2000.06.25-17.45.55--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-92891-2000.06.25-17.45.55--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

2000.06.25

APRS+SA Beta 1.99YC

1) Updated APRSPLUS.EXE to address issue of APRS+SA using 100% of processor on NT as shown by system stats. It shows 50% utilization on 2-processor systems, thus, still using all the resources of a single processor. Probably happened on Win98 but no easy way to measure it correctly.  
2) By passed Mic-E from the Unproto TO lookup field. Mic-E (D7/D700) violates basic APRS protocol with respect to Alt Nets.  
3) Ensured 3rd party packets are not sent to APRServe system. The program APRServe filters them. The program APRSd does not. This is just a change in philosophy between the program apparently.  
4) Address sudden termination of APRS+SA by unknown cause. There is now new error checking code in suspected spot of the program. Now, instead of termination, and error message will appear. Should this happen, copy the error message to the clipboard, and email it to me for inspection. Fortunately, APRS+SA did not appear to be affected by this weekends rash of problems on the Internet system. This fix addresses a problem where APRS+SA terminates without an error message of any kind. It appears to be caused my leaving an internal error trap "naked" causing the program to completely exit.

To download the beta version, navigate to <ftp://ftp.tapr.org/aprssid/winstuff/aprsplus>. The file name is BETA199YC.zip. It is distributed as a single file.

Brent Hildebrand, KH2Z

<ftp://ftp.tapr.org/aprssid/winstuff/aprsplus/BETA199YC.zip>

[]

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---

#### 1141. [aprssid] Re: APRS+SA v1.99 YC posted

From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
Date: Sun, 25 Jun 2000 19:25:40 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-92895-2000.06.25-18.29.31--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-92895-2000.06.25-18.29.31--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

On Sun, 25 Jun 2000, Brent Hildebrand wrote about his latest version:

> 3) Ensured 3rd party packets are not sent to APRServe system. The program APRServe filters them. The program APRSd does not. This is just a change in philosophy between the program apparently.

Authors, et al.

I hope we eventually get around this patch. 3rd party was not designed to be the filtering mechanism for loop-prevention. 3rd party was designed to be recursive and usable anywhere at any time. I hope with APRSd and other code in work, that we are trying to wean ourselves from this patch?

Thanks,  
de WB4APR, Bob

---

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---

#### 1142. [aprssid] Re: earthmate modification

From: Gerry Creager N5JXS <[gerry@cs.tamu.edu](mailto:gerry@cs.tamu.edu)>  
Date: Sun, 25 Jun 2000 18:37:25 -0500  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-92896-2000.06.25-18.41.54--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-92896-2000.06.25-18.41.54--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Steve Bragg wrote:

>

> Ronald Armstrong wrote:

```

> >
> > Where can I find the modification for the Earthmate to work with
> > TNC.
>
> There is, in fact, a modification that does just what you want. Details follow:
>
> Step 1: Connect the Earthmate cable to your TNC. This may require some
> modification to the DB-9 end of the cable.
>
> Step 2: Cut the cable loose from the Earthmate as close to the Earthmate as you
> can.
>
> Step 3: Throw the Earthmate in the trash bin, compactor, or incinerator. Be
> sure to save the batteries.

```

Step 3 (revised): Send the Earthmate(s) to N5JXS where he'll use them as survey instruments and research tools. Don't worry about the batteries, those I can fund!

```

> Step 4: Connect any GPS which actually outputs NMEA to the end of the cable that
> once was connected to that worthless yellow piece of junk.
>
> (NOTE TO THE HUMOR IMPAIRED: The above is a joke that illustrates an important
> point. The Earthmate doesn't output NMEA, and it can't be used with APRS
> without an external Rockwell Binary to NMEA converter, like the one at
> www.byonics.com.)

```

So noted. It's a stellar little receiver, according to Dennis Milbert of the US National Geodetic Survey. It's just unsuited for APRS because we mandate a maritime autopilot protocol (NMEA).

```

--
Gerry Creager      gerry@cs.tamu.edu, gerry@page4.cs.tamu.edu
Network Engineering      |Research focusing on
Computer Science Department |Satellite Geodesy and
Texas A&M University      |Geodetic Control
979.458.4020 (Phone) -- 979.847.8578 (Fax)

```

```

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```

## 1143. [aprssig] Satellite Field Day!

```

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 25 Jun 2000 19:38:59 -0400 (EDT)
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@tapr.org>
Message-ID: <LYR842-92897-2000.06.25-18.43.27--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

What a difference a day makes!

Three days a week for the last month, I have been taking students out doors to demonstrate A027 and U014. We have about 6 handhelds (\$88 Alinco's with chicken wire reflectors and 3 Kenwood D7's). Its mostly a receive only demo, but every single time I have keyed up my D7, HT, I always make one contact, before continuing on with the students...

Field Day I took along the same 6 handhelds so that many people at our FD site could see how easy it is to hear the downlink. I knew it would be busy, but was amazed that even my 50 watts into an arrow not once did I hear even a syllable of my uplink...

Thank goodness for SUNSAT who saved my bacon! When it came over in 1200 baud packet mode on Sunday Morning, I QSL'ed 12 stations and N8DEU QSL'ed mine. Thus, with the satellite points in hand, I was finally able to eat the food without guilt! With a total of 7 satellite radios and as many antennas and a 60 foot pushup tower for APRS, I was getting a little uneasy with my lack of success. :-)

I had to leave early to get to scout camp, so I dont know how the second SUNSAT pass went. Hope many more of you got your QSO... What great fun!

de WB4APR, Bob

```

---
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```

## 1144. [aprssid] Re: [amsat-bb] Satellite Field Day!

From: Glenn Little <glittle@awod.com>  
Date: Sun, 25 Jun 2000 20:20:25 -0400  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Cc: amsat-bb@AMSAT.Org, TAPR APRS Special Interest Group <aprssid@tapr.org>  
Message-ID: <LYR842-92904-2000.06.25-19.35.53--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 07:38 PM 6/25/00 -0400, Bob Bruninga wrote:

>What a difference a day makes!

>

>Three days a week for the last month, I have been taking students out  
>doors to demonstrate AO27 and U014. We have about 6 handhelds (\$88  
>Alinco's with chicken wire reflectors and 3 Kenwood D7's). Its mostly a  
>receive only demo, but every single time I have keyed up my D7, HT, I  
>always make one contact, before continuing on with the students...

>

>Field Day I took along the same 6 handhelds so that many people at our FD  
>site could see how easy it is to hear the downlink. I knew it would be  
>busy, but was amazed that even my 50 watts into an arrow not once did I  
>hear even a syllable of my uplink....

We also ATTEMPTED satellite ops on field day. We were unable to operate the digital modes due to lack of equipment (this will change next year). We found that the satellite (AO-27) was monopolized from A05 to L05 by a small handful of stations. The people that operated these stations did so without regard to the FCC rules (use minimum power to communicate) and without regard to their fellow amateur radio operators. The first contact got the field day team 100 points each additional contact denied a field day team that same bonus. We attempted the contact with a pair of handhelds and an Arrow antenna. The antenna performed flawlessly. Without a KW (and I am not sure that his would be enough) the satellite was unobtainable due to the methods that some operators insisted on using. It definitely made our emergency communications demonstration a wash out and was a definite discouragement to the potential satellite operators here. I can only hope that this was worthwhile to the operators that insisted on this method of satellite operation. The term LID comes to mind.

73

Glenn  
WB4UIV

```
-----
Glenn Little          glittle@awod.com    QCWA  LM 28417
Amateur Callsign:    WB4UIV          wb4uiv@amsat.org    AMSAT LM 2178
QTH:  Goose Creek, SC USA (EM92xx)    ARRL  TAPR
-----
```

---

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## 1145. [aprssid] Re: earthmate modification

From: "Lumpy" <lumpy@digitalcartography.com>  
Date: Sun, 25 Jun 2000 20:35:15 -0400  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-92905-2000.06.25-19.37.17--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Ronald Armstrong wrote:

> Where can I find the modification for the  
> Earthmate to work with TNC.

Steve Bragg wrote:

> There is, in fact, a modification that does  
> just what you want. Details follow:

> Step 3: Throw the Earthmate in the trash bin  
> compactor, or incinerator. Be sure to  
> save the batteries...

Gerry Creager wrote:

> Step 3 (revised): Send the Earthmate(s) to  
> N5JXS where he'll use them as survey  
> instruments and research tools...

Lumpy adds:

You guys are both right. They make excellent  
research tools. Like in physics class when you  
want to find the time it takes for an object to  
fall from the 7th floor to the ground. Very handy.

And Steve, I'm ashamed of your non attention to  
ecology. Instead of incinerating the beast, use  
the plastic case for a dandy pair of ashtrays.  
A pencil solder iron makes a groovy groove for  
your Marlboro. If you're a cigar smoker, use the  
150 watt irons like you would solder PL259's with.  
They will make an El Producto size groove.

And the PC board? Makes a handsome belt buckle  
for us nerd types who never quite mastered  
rodeo riding.

Lumpy n0eq

This week sentenced to Cincinnati

--

The Very Unofficial Colorado APRS Page  
<http://www.digitalcartography.com>

---

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---

## 1146. [aprssig] Re: earthmate modification

From: Brendan Keyport <[bkeyport@uswest.net](mailto:bkeyport@uswest.net)>  
Date: Sun, 25 Jun 2000 17:59:22 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: [aprssig@tapr.org](mailto:aprssig@tapr.org)  
Message-ID: <LYR842-92908-2000.06.25-20.03.18--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>Ronald Armstrong wrote:

>> Where can I find the modification for the  
>> Earthmate to work with TNC.  
>  
>

>Steve Bragg wrote:

>> There is, in fact, a modification that does  
>> just what you want. Details follow:  
>

>> Step 3: Throw the Earthmate in the trash bin  
>> compactor, or incinerator. Be sure to  
>> save the batteries...

>

>Gerry Creager wrote:

>> Step 3 (revised): Send the Earthmate(s) to  
>> N5JXS where he'll use them as survey  
>> instruments and research tools...

>

>Lumpy adds:

>You guys are both right. They make excellent  
>research tools. Like in physics class when you  
>want to find the time it takes for an object to  
>fall from the 7th floor to the ground. Very handy.  
>

>And Steve, I'm ashamed of your non attention to  
>ecology. Instead of incinerating the beast, use  
>the plastic case for a dandy pair of ashtrays.  
>A pencil solder iron makes a groovy groove for  
>your Marlboro. If you're a cigar smoker, use the  
>150 watt irons like you would solder PL259's with.  
>They will make an El Producto size groove.  
>

>And the PC board? Makes a handsome belt buckle  
>for us nerd types who never quite mastered  
>rodeo riding.



You all are full of hot air... The BEST use is a aggression/stress elimination device...

Place said GPS on stump. Get out sledge hammer. You figure out the rest. <laugh>

--

May Peace and Love be Yours,  
73 De N7UIE  
B Keyport

---

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## 1147. [aprssig] Re: [amsat-bb] Satellite Field Day!

From: "Christopher E. Phelps" <n2yqp@flash.net>  
Date: Sun, 25 Jun 2000 19:29:38 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: <amsat-bb@AMSAT.Org>,  
"TAPR APRS Special Interest Group" <aprssig@tapr.org>  
Message-ID: <LYR842-92911-2000.06.25-20.35.47--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

We too, in Albuquerque, had three operators with our HTs and Arrow antennas. I was only running my usual 2 watts and a lot of persistence. I was able to make a couple of contacts mainly toward the end of the passes as many of the big guns dropped out of the footprint or took a gasp for air, and during the more civilized west coast passes.

----- Original Message -----

From: "Glenn Little" <glittle@awod.com>  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: <amsat-bb@AMSAT.Org>; "TAPR APRS Special Interest Group" <aprssig@tapr.org>  
Sent: Sunday, June 25, 2000 6:20 PM  
Subject: [aprssig] Re: [amsat-bb] Satellite Field Day!

> At 07:38 PM 6/25/00 -0400, Bob Bruninga wrote:  
> >What a difference a day makes!  
> >  
> >Three days a week for the last month, I have been taking students out  
> >doors to demonstrate A027 and U014. We have about 6 handhelds (\$88  
> >ALinco's with chicken wire reflectors and 3 Kenwood D7's). Its mostly a  
> >receive only demo, but every single time I have keyed up my D7, HT, I  
> >always make one contact, before continuing on with the students...  
> >  
> >Field Day I took along the same 6 handhelds so that many people at our FD  
> >site could see how easy it is to hear the downlink. I knew it would be  
> >busy, but was amazed that even my 50 watts into an arrow not once did I  
> >hear even a syllable of my uplink...  
> >  
> >  
> We also ATTEMPTED satellite ops on field day. We were unable to operate  
> the digital modes due to lack of equipment (this will change next year).  
We  
> found that the satellite (A0-27) was monopolized from A0S to LOS by a  
small  
> handful of stations. The people that operated these stations did so  
> without regard to the FCC rules (use minimum power to communicate) and  
> without regard to their fellow amateur radio operators. The first contact  
> got the field day team 100 points each additional contact denied a field  
> day team that same bonus. We attempted the contact with a pair of  
> handhelds and an Arrow antenna. The antenna performed flawlessly.  
Without  
> a KW (and I am not sure that his would be enough) the satellite was  
> unobtainable due to the methods that some operators insisted on using. It  
> definitely made our emergency communications demonstration a wash out and  
> was a definite discouragement to the potential satellite operators here.  
I  
> can only hope that this was worthwhile to the operators that insisted on  
> this method of satellite operation. The term LID comes to mind.  
> 73  
> >  
> Glenn  
> WB4UIV  
> >  
> >

```

> -----
>
> Glenn Little                glittle@awod.com    QCWA  LM 28417
> Amateur Callsign: WB4UIV    wb4uiv@amsat.org    AMSAT  LM 2178
> QTH:  Goose Creek, SC USA (EM92xx)              ARRL   TAPR
> -----
>
>
>
> ---
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>

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```

## 1148. [aprssig] Field Day, the EASY bands.

```

From: Bob Bruninga <bruninga@nadm.navy.mil>
Date: Sun, 25 Jun 2000 21:36:14 -0400 (EDT)
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-92913-2000.06.25-20.40.37--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

Here is a blasphemous Perspective on FD... No complaint, just a totally new perspective (at least I never thought of it this way before...) <grin>

As you can guess, I show up at FD with nothing but VHF/UHF rigs and a few Laptops and handhelds and lots of enthusiasm, determined to communiatue with the "world" via PACKET, APRS and Satellites, SSTV and ATV.. I have a great time, get the special points, and serve as the freak side-show for the evening's entertainment.

But after the sound and the fury and my 15 minutes of "fame", and the 100 points, I am always secretly and quietly embarrassed at the fact that the total number of contacts I can often count on my fingers. Yet, my APRS map shows HUNDREDS of stations on the air (most of them light's-on, but nobody home). AND my Satellite laptop shows that I had 14 different satellites and a total of 56 PASS opportunities... yet only scored one "countable" full exchange.

Not only are my contacts low, but it was HARD, DARNED HARD to get them. I had a 30 foot push-up fiberglass pole, on top of a 30 foot homemade one-man pull-up irrigation pipe mast for a total 55 foot high J-pole. I had many VHF and UHF beams and satellite antennas. The area is just normal terrain within 16 miles of Baltimore and 30 miles of Wash DC. We are surrounded by VHF packet networks and have comms with APRS all the time both mobile, fixed, handheld and SSTV, ATV.... You'd think I could make hundreds of exchanges, not just a dozen...

POINT: My point is, VHF communications in-the-field is NOT trivial and easy. Murphy's law thrives. You either establish a link or you don't. It is HARD. Every dB counts. What I just realized by comparison is that HF is EASY!

I never thought of it that way before, but "anyone" with an HF radio and a wet noodle lying on the GROUND can make a contact with "someone". In fact many contacts! Yes, that is why we often justify our "emergency preparedness" on HF... because we can "always get through". HF really works! IT'S EASY. ANYONE CAN DO IT! IT'S GREAT!

But is the EASY way, the way to test our ability to communicate in times of emergency? How many local emergencies will HF be the saving link between the field and the County EOC? Conversely, how much do we depend on VHF and UHF for our local preparedness exercises and how badly do we suffer when the "repeater" goes down..

WOW, What if everyone at all Field Days were required to operate like we are with VHF and digital? No repeaters, no relays. Then I bet we would really see the difference between the men and the boys..

Don't get me wrong, I love our field days and this is NOT the usual complaint about the Field Day rules. In the past, we viewed the Field Day rules as justifiably penalizing VHF, FM, Packet and

digipeaters, because we viewed VHF, FM, PACKET and RELAYS as TOO EASY.

WHAT I JUST WOKE UP TO IS THAT IT IS THE OPPOSITE! VHF, FM, PACKET and RELAYS ARE HARD! It is a \*\*\* CHALLENGE \*\*\*. Yes, it is trivial to make the first dozen contacts with the other local clubs via VHF FM... BUT THEN WHAT DO YOU DO? Even with NO RULES... HOW do you get any more contacts or extend your range?

WOW, I can see it now. DUH...

You might say that is what VHF contests are all about. But I would say that fewer than 5% of the HAM population has all-mode weak signal VHF gear. If you want to see how we can do in the field locally, then you must include "everyone" and FM..

Imagine this, a VHF,FM,PACKET,SSTV,ATV,UHF,MICROWAVE Field Day where NOTHING below 30 MHz (the EASY BANDS) was permitted?! AND you had to operate from AVERAGE TERRAIN!

Now THAT would be a real challenge....! (Of course, the variety of demographics and topology would make it IMPOSSIBLE to have any meaningful nationwide scoring system). But I don't care about scores, just get out there and do it!

P.S. CONVERSLEY, I also realized that if I REALLY want to have an emergency radio, usable anytime! anywhere! then it should be HF! and a small spool of wire... its so "EASY"! <GRIN>

Just a thought as I lick my wounds driving home from FD-2000!

de WB4APR, Bob

P.S. Im sure other VHF'ers and Satellite ops did much better, but I was trying to do it all with only my 4 assistants... Murphy, Murphie, Murfy and Myrfie and my usual poor planning and lack of time...

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## 1149. [aprssig] Re: [amsat-bb] Satellite Field Day!

From: "Brian P. Mileschosky" <n5zgt@swcp.com>  
Date: Sun, 25 Jun 2000 19:36:36 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92914-2000.06.25-20.41.48--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Amen...we had the same luck (not much luck) from Albuquerque, New Mexico where Chris N2YQP, Jerry KK5YY, Mike KD5MDS and myself (N5ZGT) were all attempting to get into U0-14 and AO-27 with our Arrows and dual-band HTs. An any other given day we can have great QSOs on the birds with only 1/4 watt, but not this weekend. But we had pitifully poor performance this weekend. Didn't even try APRS on 50-35 either.

This was caused, as mentioned below, by the "gotta get all those points no matter how I can" contesters running mobile/base stations calling "CQ Field Day" 10 times before listening, and also by some of the inexperienced satellite ops. Both of these are easily preventable.

How? Easy!

Don't use your mobiles/base stations to work an easy satellite like AO-27 or U0-14 (I'm not just addressing Field Day...I'm talking about any other given day, too!). You don't need the excessive power. Like I said, even a 1/4 does wonders on the birds. The same as your 50 watt mobile. So please save the other useless 49 and 3/4 watts. :-)

Don't hog the satellite with long QSOs. Others are waiting to have a shot at it, and by the time some people are finished ragchewing like this is a permanent local repeater, the satellite is out of range for other hams. Remember, the bird has a big footprint, and a huge audience -- but only one frequency. Please be considerate.

Teach the inexperienced to be experienced! Take a new satellite op under your wing and elmer them rather than complaining about him/her or dismissing them on the air. If they are led by example, these problems will go away with the buffalo. And if they are treated warmly, they will be happy to be a

part of the Amateur satellite community.

I'm sure I'm preaching to the choir here with this message, but this is for the few who may be guilty as charged. Please accept this constructive criticism.

Flame suit on. In private please. Otherwise, what a great weekend everybody. Let's do it again next year! See everyone on the birds and APRS!

73,  
Brian, N5ZGT  
Albuquerque, New Mexico

> We also ATTEMPTED satellite ops on field day. We were unable to operate  
> the digital modes due to lack of equipment (this will change next year).  
We  
> found that the satellite (AO-27) was monopolized from AOS to LOS by a  
small  
> handful of stations. The people that operated these stations did so  
> without regard to the FCC rules (use minimum power to communicate) and  
> without regard to their fellow amateur radio operators. The first contact  
> got the field day team 100 points each additional contact denied a field  
> day team that same bonus. We attempted the contact with a pair of  
> handhelds and an Arrow antenna. The antenna performed flawlessly.  
Without  
> a KW (and I am not sure that his would be enough) the satellite was  
> unobtainable due to the methods that some operators insisted on using. It  
> definitely made our emergency communications demonstration a wash out and  
> was a definite discouragement to the potential satellite operators here.  
I  
> can only hope that this was worthwhile to the operators that insisted on  
> this method of satellite operation. The term LID comes to mind.  
> 73  
>  
> Glenn  
> WB4UIV  
>

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---

## 1150. [aprssig] Re: [amsat-bb] Satellite Field Day!

From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
Date: Sun, 25 Jun 2000 21:47:21 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: [amsat-bb@AMSAT.Org](mailto:amsat-bb@AMSAT.Org), TAPR APRS Special Interest Group <[aprssig@tapr.org](mailto:aprssig@tapr.org)>  
Message-ID: <[LYR842-92915-2000.06.25-20.51.46--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-92915-2000.06.25-20.51.46--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

On Sun, 25 Jun 2000, someone wrote:

> We also ATTEMPTED satellite ops on field day. .... We found that the  
> satellite (AO-27) was monopolized from AOS to LOS by a small  
> handful of stations.

While I can empathize with the feeling, this is totally predictable.  
With over 5000? FD sites, each one trying for a satellite contact on a  
SINGLE FM channel? We justify our "HAM" abilities when the "phones" go  
out or when the CELL SITES get overloaded at an emergency, yet we know a  
year in advance that our TWO PHONES in the SKY are going to SATURATE on  
Field Day..

The only way to get the FD Satellite points is to go for one of the other  
13 satellites...which have hardly ANYONE on them...

Thanks Glen for making this point so clearly!  
bob

---

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## 1151. [aprssig] Re: Field Day, the EASY bands.

From: Jim Duncan <ku0g@kcaprs.org>  
Date: Sun, 25 Jun 2000 22:51:30 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92919-2000.06.25-22.55.52--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

While I personally think that APRS contacts should count full credit (and there was some serious debate at the site that I was working about this; they read the rules and felt that every APRS and satellite contact after the first DQ count for QSO points!), I have to point out that SUNSAT voice Saturday night was the STAR OF THE SHOW at K0GQ (Raytown, MO)....

Here's the story: They could monopolize RS-13 but nobody came back to them on an entire OVERHEAD pass... 10 minutes later (on my D700 and mobile antenna) I scored 3 QSO's via packet and nailed 5 good exchanges on the voice pass! Needless to say, they were duly impressed that my "puny little mobile" could out-do their Yaesu 847 and 200 watts on SSB! <vicious giggle>

I told "El Supremo" (K00U, our beloved "Commander Field Day", who was also impressed with what I could make happen on a mobile!) to include a comment in his write-up to ARRL to allow full credit for APRS contacts. He said he was definitely going to do it...

On the other hand, I had a good time (when I could get a rather beligerent female ham off of it!) running HF phone this morning... Ran for a good hour and nailed 178 Q's and captured the best rate of the contest for the club...

Also picked up a used IC-730 (so much for my 100% Kenwood station...are you getting this Cliff U.?!?!?!? <G>) at the site so I'll be back on 30 meters later this week (graduate school homework permitting!)...

--

73 de Jim, KU0G  
Chairman/Coordinator  
Kansas City APRS Working Group, W0APR  
First Alert Storm Team KMBC-TV9  
Mailto:ku0g@kcaprs.org  
Webpage: <http://www.kcaprs.org>

---

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## 1152. [aprssig] long journey

From: "Roger Rockwell" <wb4trz@usa.net>  
Date: Sun, 25 Jun 2000 23:9:6  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-92920-2000.06.25-23.12.55--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Well things are nearing an end.

Lots of exciting events of last two days now posted.

New pictures <http://www.qsl.net/k1pns/>  
73's roger

---

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---

## 1153. [aprssig] AFilter 1.8

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Mon, 26 Jun 2000 03:37:15 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93005-2000.06.26-03.41.24--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On the advice of several people I downloaded AFilter 1.8 and started running it. What I've found is that once I open the server port, the AFilter program stops responding to inputs and actually says "(not responding)" in the close program box. If I let it sit for about 5 minutes, the program once again starts responding. It seems to be filtering even when not responding.

Is this normal?

73,

Mark  
KC7BXS

---

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---

## 1154. [aprssig] The preemting process

From: "Henk de Groot (EMN)" <Henk.de.Groot@emn.ericsson.se>  
Date: Mon, 26 Jun 2000 10:51:47 +0200  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93006-2000.06.26-03.56.00--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hallo,

Most of the time this weekend was spend on the iceWM window manager, but I did something on DIGI\_NED to to build in preemptive digipeating. I have a test version ruining on a virtual connection.

It works now by pre-processing the recieved packet. You can specify:

preempt: 1 ABC

This means that all incomming packets from port 1 will be searched for ABC.

Say you receive a packet:

W0ABC>N0ABC,DIGI1\*,DIGI2,ABC,DIGI3

Then preempt changes the packet to:

W0ABC>N0ABC,DIGI1,DIGI2\*,ABC,DIGI3

So it makes ABC the next digi to be handled. The modified packet is then offered to the normal digipeating operation like any other packet. The simplest form would be to have a rule:

digipeat: 1 ABC 1

Which repeats packets from port 1 to port 1 if the digi which is due is ABC (and the preempt caused this out of order).

The result would be a transmission like this:

W0ABC>N0ABC,DIGI1,DIGI2,DIGI\_CALL\*,DIGI3

Okay, it works but I have a funny feeling about what preempt did to the incoming packet. If you look at the final packet then you see some cheating. If you didn't know what happend you would think that DIGI2 relayed this packed when in reality it did not.

So I'm thinking about throwing the digis inbetween out. To depict this:

Rx:

W0ABC>N0ABC,DIGI1\*,DIGI2,ABC,DIGI3

Then preempt changes the packet to:

W0ABC>N0ABC,DIGI1\*,ABC,DIGI3

So it just throws out the unused digipeater calls. After digipeating with the same digipeat: rule, TX looks like:

W0ABC>N0ABC,DIGI1,DIGI\_CALL\*,DIGI3

The advantage is that it not longer looks like DIGI2 had the packet, DIGI2 was not in the path and now it is also not shown. Also the total packet length is shorter.

Also you can get funny results with the original idea. For example

```
W0ABC>N0ABC,DIGI1*,TRACE3-2,ABC,DIGI3
```

would end up as:

```
W0ABC>N0ABC,DIGI1,TRACE3-2,DIGI_CALL*,DIGI3
```

So with an unfinished TRACE3-2 in the middle. Stripping unused digis results in:

```
W0ABC>N0ABC,DIGI1,DIGI_CALL*,DIGI3
```

Now you don't see the unfinished TRACEn-N. Disadvantage is that you lost the information that TRACEn-N was used... On the other hand this was a funny via path anyway.

I would like to have comments on this. I like the last approach more, i.e. removing the unused digis, because it is more close to what really happens (I don't like cheating in general).

I dropped the idea of swapping for the moment. It is hard to avoid problems when changing the order of packets. If you want to have a collaborating cluster of 3 digis then you still can do that using digipeat: rules that redefine the path.

Kind regards,

Henk.

--

#####  
The difference between theory and practice in practice is bigger than the difference between theory and practice in theory.

Henk de Groot | Tel: +31 53 4505400 Ext: 5400  
<Henk.de.Groot@emn.ericsson.se> | Ericsson Business Mobile Networks

---

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## 1155. [aprssig] Weatherstation

From: "Tom Hoedjes" <al01@arrrl.net>  
Date: Mon, 26 Jun 2000 5:0:8  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93010-2000.06.26-05.04.01--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Would like to add a weatherstation to my digi.

Does anybody know which of the WMR type weatherstation are compatible with winaprs..

There is the WMR900H, WMR918H and the WM 918. I think some of them are compatible with the Radioshack unit, but I want to make sure before I buy one...

73 de Tom

---

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---

## 1156. [aprssig] RE: AFilter 1.8

From: Bill Diaz <billdiaz@megsinet.net>  
Date: Mon, 26 Jun 2000 06:21:45 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93020-2000.06.26-06.29.43--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Mark,

When first connecting to port 10151, AFilter will process the entire 8 hour dump. Once all of the initial data has been processed and filtered, it will respond to user input in a timely manner. The amount of time required depends on connection speed, processor speed etc. Depending on the time of day, my 450 MHZ Pentium II will process this in 2-4 minutes when connected at 44000. Your mileage may vary.

Bill KC9XG

On Monday, June 26, 2000 3:37 AM, Mark Fellhauer [SMTP:sparkfel@primenet.com] wrote:

>  
> On the advice of several people I downloaded AFilter 1.8 and started  
> running it. What I've found is that once I open the server port, the  
> AFilter program stops responding to inputs and actually says "(not  
> responding)" in the close program box. If I let it sit for about 5  
> minutes, the program once again starts responding. It seems to be  
> filtering even when not responding.  
>  
> Is this normal?  
>  
> 73,  
>  
> Mark  
> KC7BXS  
>  
>

---

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## 1157. [aprssig] Re: Disk problem here

From: Gun Steele W0GUN <w0gun@ar1.net>  
Date: Mon, 26 Jun 2000 08:16:34 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: <trombone-l@lists.missouri.edu>, "cdt-l" <cdt-l@backcountry.net>,  
<clovis\_nm\_astronomy@egroups.com>, <propnet@greeceny.com>  
Message-ID: <LYR842-93033-2000.06.26-08.20.39--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Earl,

EXPRESS ASSIST <http://www.silverlaketechnology.com/downloads.htm> to some other media, before next time.

Gun Steele W0GUN  
SYNERTOOL

----- Original Message -----

From: "Earl Needham" <KD5XB@AMSAT.ORG>  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: <trombone-l@lists.missouri.edu>; "cdt-l" <cdt-l@backcountry.net>;  
<clovis\_nm\_astronomy@egroups.com>; <propnet@greeceny.com>  
Sent: Sunday, June 25, 2000 3:39 PM  
Subject: [aprssig] Disk problem here

>  
> I have had a hard drive problem, and lost my entire IN box,  
including  
> messages saved about all kinds of stuff. Those of you that I have been in  
> conversation with may need to resend any messages from the past several  
days.  
>  
> 7 3  
> Earl  
>  
>  
> Earl Needham, KD5XB <mailto:KD5XB@AMSAT.ORG>  
> Clovis, New Mexico DM84jk N34d 25.446m W103d 12.700m (or so)  
> PGP Key ID 0xC3FDA66E  
>  
> Pet peeve: breath is a noun, breathe is a verb (When you take a breath,  
> you breathe...)  
>  
>  
> ---  
> You are currently subscribed to aprssig as: w0gun@ar1.net  
> To unsubscribe send a blank email to leave-aprssig-17048Q@lists.tapr.org

---

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---

## 1158. [aprssig] APRS FD mode



From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Mon, 26 Jun 2000 09:41:28 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: aprsspec@lists.tapr.org  
Message-ID: <LYR842-93035-2000.06.26-08.45.54--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

#### APRS FD ops.

The minimum number of packets required to support just 20 APRS Field Day contacts can be from 400 to over 2000. Each station having to send a QSL to every other station (including up to 5 retries each).. Obviously this is a waste of bandwidth. This FD, I experimented with an auto-APRS-FD mode where my station combined all QSL information into one or more re-usable BULLETIN packets:

```
BLN1CQFD :QSL 3A-MDC,W3ABC,N0KT,KC5ION,KC8UZ,WB4APR,N3KTP,N8DEU,K2SAT
BLN2CQFD :QSL 3A-MDC,N4ZQ,K4RS,KC8MZM,W8UC,N5ZNL,KC8KZM
```

Here the BULLETIN numbers are the 1 & 2 characters. By bundling the QSL calls in one bulletin, you improve the chances that the other stations copy it while minimizing QRM. Once it is full, then move onto BLN2CQFD. Then the decaying algorithm for APRS will concentrate on the older bulletin less and less, and place priority on the new BLN2CQFD bulletin.

#### DETAILS:

1. Put your FD exchange in your POSIT comment 3A-MDC for example
2. For each new station seen:
  - \* Add the callsign to a single "QSL" BULLETIN line to REPLACE your previous QSL bulletin. ERASE the previous packet.
  - \* If one line fills up, then move to next BLN#CQFD. The full BLN#CQFD line decays as usual to lower and lower transmit rates.

#### EXAMPLE:

```
After 1st stn BLN1CQFD :QSL 3A-MDC,W3ABC
after 2nd stn BLN1CQFD :QSL 3A-MDC,W3ABC,W4XYZ
after 3rd stn BLN1CQFD :QSL 3A-MDC,W3ABC,W4XYZ,W3XYZ,W5HIJ
etc           BLN1CQFD :QSL 3A-MDC,W3ABC,W4XYZ,W3XYZ,W5HIJ,WB4APR,W3STL
```

In APRSdos, the actual Key strokes to COPY a message and add to the end are as follows:

```
S,<,#,XXXXXX
E,#
```

Where S is for SEND, <(ENTER KEY), is to RESEND the same TOCALL (BLN1), # is the line number of the previous line, and XXXXX is the new call for the end. Then E is to erase the previous copy of the old Bulletin.

Thus, your station is never sending more than a single packet, yet that single packet is not only serving to QSL up to 8 stations at a time, it is also calling CQ and including YOUR FD exchange for everyone else.

Quite efficient. In fact, MY station was fully automatic. It did all of this unattended. It looked for any NEW station, checked to make sure it was an APRS-MESSAGE capable station (not a DIGI, WX station, or TRACKER or many others) and then added it to the BULLETIN.

For next year, I will make the above filter even more exclusive and have it ONLY try to QSL other "HUMAN" stations. Turns out, there are LOTS of APRS stations with the "lights-on, but nobody's home". To minimize QRM, I want the algorithm to ONLY try to QSL other APRS Field Day stations. This is why the BLN#CQFD includes the BULLETIN GROUP of "CQFD" so that the auto-QSO software at the other end will know to QSL back...

SCORING. According to the "lawyers", under this algorithm, if you SEE your call in anyone elses QSL Bulletin, it counts (assuming all of your outgoing packets contain your FD exchange). That is why I included the FD Exchange in the BULLETIN too.

SUMMARY. With this APRS-FD Algorithm, the number of Packets on the air for 20 stations is reduced from 400/1200 down to a minimum of 20. Yes, those 20 packets are repeated, but due to the decaying-algorithm of APRS, they fade out of the system. Just think in terms of every station on the air for FD is just repeating ONE packet. Thats no worse than NORMAL! yet it accomplishes the OBJECTIVE...

de WB4APR, Bob

---

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## 1159. [aprssig] Re: earthmate modification

From: Hamish Moffatt <hamish@cloud.net.au>  
Date: Tue, 27 Jun 2000 00:19:31 +1000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93040-2000.06.26-09.23.26--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Sun, Jun 25, 2000 at 06:37:25PM -0500, Gerry Creager N5JXS wrote:  
> > Step 4: Connect any GPS which actually outputs NMEA to the end of the cable that  
> > once was connected to that worthless yellow piece of junk.  
> >  
> > (NOTE TO THE HUMOR IMPAIRED: The above is a joke that illustates an important  
> > point. The Earthmate doesn't output NMEA, and it can't be used with APRS  
> > without an external Rockwell Binary to NMEA converter, like the one at  
> > www.byonics.com.)  
>  
> So noted. It's a stellar little receiver, according to Dennis Milbert  
> of the US National Geodetic Survey. It's just unsuited for APRS because  
> we mandate a maritime autopilot protocol (NMEA).

I don't see why their use of the Rockwell binary format rules them out.  
The Aisin \$20 GPS (from mavin.com) had Rockwell output (which was why  
the Byonics chip was developed I think) and Mavin had no problems  
moving those out the door.

My Aisin GPS cost me about \$40-50 after currency conversion and  
shipping. The GST-2 converter would only be \$10-20. Cheaper than  
my Trimble SV6 which cost about \$160. Smaller, too.

Like I've been saying: more TNC intelligence is the solution.

Hamish

--  
Hamish Moffatt VK3SB <hamish@debian.org> <hamish@cloud.net.au>

---

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## 1160. [aprssig] Re: The preemting process

From: "Jeff Brenton" <jeffb@espi.com>  
Date: Mon, 26 Jun 2000 09:13:36 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "aprssig" <aprssig@tapr.org>  
Message-ID: <LYR842-93043-2000.06.26-09.37.19--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> So I'm thinking about throwing the digis inbetween out.

Hmm... If a preemptive digi is WIDEn-n capable, maybe the thing to do is to  
toss out any unused hops in front of the WIDEn-n....

Example... my mobile uses RELAY,WIDE,WIDE2-2 for a path. This is generic  
enough to get me at least 2 hops in most networks, and 4 in a WIDEn-n  
network. If my packet were first heard by a preemptive digi, the result  
would be removal of the RELAY and WIDE, and to start immediately operating  
on the WIDE2-2.

To keep certain people happy, any USED hops would be left in, so that,  
hearing DIGI1\*,WIDE,WIDE2-2 would be turned into DIGI1\*,WIDE2-2, which  
would then be processed normally.

Optionally, unused generic calls could be made into added hops, i.e.,  
RELAY,WIDE,WIDE2-2 would be converted to WIDE4-4, before being turned over  
to the "normal" digipeater code.

Jeff Brenton  
President,  
Engineered Software Products, Inc  
<http://espi.com>  
Questionable web page: <http://dididahdahdidit.com>  
Northern Illinois APRS Network: <http://nian.aprs.net>

My goal in life: To be remembered as someone who always stated what should have been obvious to everyone in the first place.

---

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## 1161. [aprssig] KAM+

From: "Clayton H. Owen" <aa3jy@erols.com>  
Date: Mon, 26 Jun 2000 10:40:26 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93044-2000.06.26-09.44.13--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

FYI...there are 5 current ver. KAM+'s available at HR0..  
Good Luck and 73's  
Clay AA3JY

---

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## 1162. [aprssig] Re: The preemting process

From: "Henk de Groot (EMN)" <Henk.de.Groot@emn.ericsson.se>  
Date: Mon, 26 Jun 2000 17:27:43 +0200  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93053-2000.06.26-10.32.09--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hello Jeff,

> -----Original Message-----

> To keep certain people happy, any USED hops would be left in, so that,  
> hearing DIGI1\*,WIDE,WIDE2-2 would be turned into DIGI1\*,WIDE2-2, which  
> would then be processed normally.

Yes, it was my intention only to take out unused digis.

So in your real-wide digipeater you could specify:

preempt: 1 WIDE2-2

and any packet with WIDE2-2 whould be picked up and all unused digis before WIDE2-2 are removed but used ones are left in.

> Optionally, unused generic calls could be made into added hops, i.e.,  
> RELAY,WIDE,WIDE2-2 would be converted to WIDE4-4, before  
> being turned over  
> to the "normal" digipeater code.

Mmm, no matter how configurable you make it, always new things are invented that are not covered... Okay, how about:

preempt: 1 WIDE2-2 WIDE4-4

So an optional extra parameter as replacement call if the incomming packet is preempted.

Note: preempt will not react if WIDE2-2 was already due, at least one unused digipeater had to be skipped. So:

RELAY\*,WIDE,WIDE2-2 will preempt to RELAY,WIDE\*,WIDE4-4 before entering the digipeating process (which results in RELAY,WIDE\*,WIDE4-3 in this case using the default-rules).

but

RELAY,WIDE\*,WIDE2-2 will stay RELAY,WIDE\*,WIDE2-2 because WIDE2-2 was already due (which results in RELAY,WIDE\*,WIDE2-1 in this case using the default-rules).

By the way, who is going to write a textbook "how to configure DIGI\_NED", after this is over we definately need one...

[ To all the people against open-source: this is one way to make money from an open-source product. Make it so feature rich that you can sell textbooks about what you can do

with the software. Do you see all those Linux books in your bookstore too? That's where the money is earned... ]

Kind regards,

Henk.

--

#####  
The difference between theory and practice in practice is bigger than  
the difference between theory and practice in theory.

Henk de Groot | Tel: +31 53 4505400 Ext: 5400  
<Henk.de.Groot@emn.ericsson.se> | Ericsson Business Mobile Networks

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### 1163. [aprssig] Re: earthmate modification

From: "Dennis Hudson, N2LBT" <n2lbt@n2lbt.com>  
Date: Mon, 26 Jun 2000 11:34:18 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93055-2000.06.26-10.41.42--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> On Sun, Jun 25, 2000 at 06:37:25PM -0500, Gerry Creager N5JXS wrote:  
>>> Step 4: Connect any GPS which actually outputs NMEA to the end of the cable  
>>> that  
>>> once was connected to that worthless yellow piece of junk.  
>>>  
>>> (NOTE TO THE HUMOR IMPAIRED: The above is a joke that illustrates an  
>>> important  
>>> point. The Earthmate doesn't output NMEA, and it can't be used with APRS  
>>> without an external Rockwell Binary to NMEA converter, like the one at  
>>> www.byonics.com.)  
>>  
>> So noted. It's a stellar little receiver, according to Dennis Milbert  
>> of the US National Geodetic Survey. It's just unsuited for APRS because  
>> we mandate a maritime autopilot protocol (NMEA).  
>  
> I don't see why their use of the Rockwell binary format rules them out.  
> The Aisin \$20 GPS (from mavin.com) had Rockwell output (which was why  
> the Byonics chip was developed I think) and Mavin had no problems  
> moving those out the door.  
>  
> My Aisin GPS cost me about \$40-50 after currency conversion and  
> shipping. The GST-2 converter would only be \$10-20. Cheaper than  
> my Trimble SV6 which cost about \$160. Smaller, too.

A Tripmate can be found used for \$50, a 7506 regulator and assorted parts  
for about \$10. Makes an awesome 12ch GPS for the D700, as the GPS is hidden  
under the rear deck of my car and the GPS display is on the head of the  
D700. I have had mine running basically continuously since January. I would  
recommend it to someone looking for a GPS for this use. I bought 2, one for  
a spare, or if I decide to get a D7.

Dennis, N2LBT

---

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### 1164. [aprssig] long journey

From: "Roger Rockwell" <wb4trz@usa.net>  
Date: Mon, 26 Jun 2000 11:19:30  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93064-2000.06.26-11.23.25--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Thank you to all who keep me inspired by following me and sending the  
encouraging e-mails!!!

There are many people that I must thank individually:

1. Steve Dimse who's work in providing APRServe. To me it is unbelievable that someone would gratis devote the time, effort and resources to provide this service.
2. All of the individuals, of whom I don't even know, that install operate and maintain the digi's and internet gates. Lets fill in those dead spots..
3. My son who is the smart one that knows how to set-up and maintain my WEB page. <http://qsl.net/k1pns/>. I LOVE you Billy.
4. Last but not least my wife, Mary Jo, who didn't say " Hell No!! I'm not letting you do this hair brained thing."

I believe that this has done , at least a small bit, to promote Ham Radio. The first thing anyone wants to know is "how are you doing this" Once I get their interest, they listen to me talk about Ham Radio and all the fun things that are being done.

73's Roger Rockwell K1PNS

---

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---

## 1165. [aprssig] Radio Question for the Experts

From: "Paul M. Spatzek" <[spatzek@chugach.net](mailto:spatzek@chugach.net)>  
Date: Mon, 26 Jun 2000 08:51:03 -0800  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-93073-2000.06.26-11.55.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Have a knotty radio question. I purchased a KAM that unfortunately has the old software. It will cost approx. 60 dollars to upgrade. As it sits now, it would make a fine digipeater combined with the old Icom mobile rig.

I am leaning towards the new Alinco packet/gps ready mobile for a car/portable APRS package. The Kenwood HT, while nice is not an option, since I already have seven HT's. The Kenwood mobile is pricey and over-complicated (my opinion only!) Has ANYONE had any opinions good or bad on the Alinco? Also curious as to the street price if anyone knows.

Thanks in advance

Paul Spatzek WL7BF

---

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---

## 1166. [aprssig] New digi lists

From: "Jeff Brenton" <[jeffb@espi.com](mailto:jeffb@espi.com)>  
Date: Mon, 26 Jun 2000 12:14:07 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-93084-2000.06.26-12.18.40--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I have not updated the web page itself to reflect this, but the latest (26 June 2000) update to the APRS digipeater lists are posted on the Questionable web page.

The page SAYS it's an older version, but the files ARE current. The pages will be updated when we install the new servers, and there will probably be new lists at that time.

The lists are not complete - I have 8 digis that still have to be added, but my import routine has something wrong with it, so I left them out for now. Also, the digis are in no particular order; just whatever the database spit out. That, too, will be fixed, once I finish automating the generation procedure.

[actually, I'll be experimenting with the ability to download a list that is generated at the moment you check it...]

Jeff Brenton KA9VNV  
Questionable web page: <http://dididahdidit.com>

My goal in life: To be remembered as someone who always  
stated what should have been obvious to everyone involved  
in the first place.

---

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---

## 1167. [aprssig] Re: Radio Question for the Experts

From: Guy Story <kc5goi@tapr.org>  
Date: Mon, 26 Jun 2000 12:56:29 -0500 (CDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93093-2000.06.26-13.00.29--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Paul, are you wanting to use one radio to handle both voice and APRS? If  
so the Kenwood V7A is the cheapest choice for a one radio solution. I  
sent an email to Alinco asking if it can do the switching trick the V7A  
can do and was told that I would have to manually switch memory  
settings. A properly configured V7A can do this for you automatically.

73,

Guy Story  
KC5G0I  
kc5goi@tapr.org  
<http://www.kc5goi.net>

---

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---

## 1168. [aprssig] RE: AFilter 1.18

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Mon, 26 Jun 2000 13:17:39 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93103-2000.06.26-13.21.34--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I seem to have a bigger problem, and If I recall this happened to me with  
earlier variants. I can't seem to get Afilter communicating to  
WinAPRS. I've read the docs - done the local port thing, but nothing gets  
ported to WinAPRS. When I open the local port in WinAprs - Afilter  
responds and connects, It even shows that a connect request has been made  
from KC7BXS-3 to the APRS server. But no "packets" ever seem to reach  
WinAPRS (Afilter is running and displaying). I've played with the  
settings to no avail. This shouldn't be that hard... :)

What am I doing wrong?

Mark

At 06:21 AM 6/26/00, Bill Diaz wrote:  
>Mark,  
> When first connecting to port 10151, AFilter will process the entire 8  
> hour  
>dump. Once all of the initial data has been processed and filtered, it will  
>respond to user input in a timely manner. The amount of time required  
>depends  
>on connection speed, processor speed etc. Depending on the time of day,  
>my 450  
>MHZ Pentium II will process this in 2-4 minutes when connected at  
>44000. Your  
>mileage may vary.

---

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---

## 1169. [aprssig] objects in winaprs

From: "Tom Hoedjes AL0L" <al0l@arrl.net>  
Date: Mon, 26 Jun 2000 21:34:08 +0200  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93118-2000.06.26-14.38.14--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi Gang,

Is there a possibility to create objects with a startup file when starting winaprs..

After every restart I have to edit the objects again..

I know there is a startup file with normal packets in it but these stations will not be treated as objects and beaconed out every object send time...

Tnx fr info  
Tom HB9DOD AL0L

---

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---

## 1170. [aprssi] T238 and iButton station

From: Anson Mount <amount@execpc.com>  
Date: Mon, 26 Jun 2000 14:35:48 -0500  
To: "TAPR APRS Special Interest Group" <aprssi#lists.tapr.org>  
Message-ID: <LYR842-93119-2000.06.26-14.39.49--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I hope that I'm not being redundant here but has anyone built and used the combination of these two units as described in the July 2000 issue of QST?

I'd like to try this for an APRS weather reporting station.

Thanks,

Anson/n9rjx

---

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---

## 1171. [aprssi] RE: AFilter 1.18

From: Bill Diaz <billdiaz@megsinet.net>  
Date: Mon, 26 Jun 2000 14:36:12 -0500  
To: "TAPR APRS Special Interest Group" <aprssi#lists.tapr.org>  
Message-ID: <LYR842-93120-2000.06.26-14.40.20--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Mark,

If possible try the following when not connected to the net.

Start AFilter. Select a server and port.

Check "Pass all stations within:  
Set the distance filter to 1000 miles.

Enter your callsign including ssid if used.  
Enter your latitude and longitude.  
Hit the reload button to register your location.

Start WinAprs. Select Local filter.  
AFilter should then initiate the dialing or connect sequence.

When the server connection is established, the AFilter left connection circle (server) will be green.  
If connected to WinAprs, the AFilter right connection circle (client) will be green.  
If client is red, WinAprs has not connected to AFilter.

Once AFilter is connected data should start appearing in the main window. Beneath this window are 3 status bars. The top bar will display connection status or errors. The middle bar will display data coming from WinAprs. The bottom bar displays data being sent to WinAprs if connected. If not connected, this bar displays data that passed the filters.

If you still cannot pass data to WinAprs, please provide details on AFilter setup, and Aserve.txt contents.

Bill KC9XG

On Monday, June 26, 2000 1:18 PM, Mark Fellhauer [SMTP:sparkfel@primenet.com] wrote:

```
> I seem to have a bigger problem, and If I recall this happened to me with
> earlier variants. I can't seem to get Afilter communicating to
> WinAPRS. I've read the docs - done the local port thing, but nothing gets
> ported to WinAPRS. When I open the local port in WinAprs - Afilter
> responds and connects, It even shows that a connect request has been made
> from KC7BXS-3 to the APRS server. But no "packets" ever seem to reach
> WinAPRS (Afilter is running and displaying). I've played with the
> settings to no avail. This shouldn't be that hard... :)
>
> What am I doing wrong?
>
> Mark
>
>
> At 06:21 AM 6/26/00, Bill Diaz wrote:
> >Mark,
> > When first connecting to port 10151, Afilter will process the entire 8
> > hour
> >dump. Once all of the initial data has been processed and filtered, it will
> >respond to user input in a timely manner. The amount of time required
> >depends
> >on connection speed, processor speed etc. Depending on the time of day,
> >my 450
> >MHZ Pentium II will process this in 2-4 minutes when connected at
> >44000. Your
> >mileage may vary.
>
>
> ---
> You are currently subscribed to aprssig as: BILLDIAZ@MEGSINET.NET
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
```

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---

## 1172. [aprssig] RE: AFilter 1.18

From: "Sadowski, Allan" <allan.sadowski@ncshp.org>  
Date: Mon, 26 Jun 2000 15:50:17 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93121-2000.06.26-14.49.39--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bill and Group

I may be incorrect... but also... the parameters for Local Filter in WinAPRS... WinAPRS is sensitive to whether it's tabs or spaces in the parameters....

If I recall correctly, it needs to be tabs... spaces - and it doesn't work... and I don't think you even get an error message...

ALOHA  
AH6LS

```
> -----Original Message-----
> From: Bill Diaz [SMTP:billdiaz@megsinet.net]
> Sent: Monday, June 26, 2000 3:36 PM
> To: TAPR APRS Special Interest Group
> Subject: [aprssig] RE: AFilter 1.18
>
> Mark,
> If possible try the following when not connected to the net.
>
> Start AFilter. Select a server and port.
>
> Check "Pass all stations within:
> Set the distance filter to 1000 miles.
>
> Enter your callsign including ssid if used.
```



```

> Enter your latitude and longitude.
> Hit the reload button to register your location.
>
> Start WinAprs, Select Local filter.
> AFilter should then initiate the dialing or connect sequence.
>
> When the server connection is established, the AFilter left connection
> circle
> (server) will be green.
> If connected to WinAprs, the AFilter right connection circle (client)
> will be
> green.
> If client is red, WinAprs has not connected to AFilter.
>
> Once AFilter is connected data should start appearing in the main window.
> Beneath this window are 3 status bars. The top bar will display
> connection
> status or errors. The middle bar will display data coming from WinAprs.
> The
> bottom bar displays data being sent to WinAprs if connected. If not
> connected,
> this bar displays data that passed the filters.
>
> If you still cannot pass data to WinAprs, please provide details on
> AFilter
> setup, and Aserve.txt contents.
>
>
> Bill KC9XG
>
> On Monday, June 26, 2000 1:18 PM, Mark Fellhauer
> [SMTP:sparkfel@primenet.com]
> wrote:
> > I seem to have a bigger problem, and If I recall this happened to me
> > with
> > earlier variants. I can't seem to get Afilter communicating to
> > WinAPRS. I've read the docs - done the local port thing, but nothing
> > gets
> > ported to WinAPRS. When I open the local port in WinAprs - Afilter
> > responds and connects, It even shows that a connect request has been
> > made
> > from KC7BXS-3 to the APRS server. But no "packets" ever seem to reach
> > WinAPRS (Afilter is running and displaying). I've played with the
> > settings to no avail. This shouldn't be that hard... :)
> >
> > What am I doing wrong?
> >
> > Mark
> >
> >
> >
> > At 06:21 AM 6/26/00, Bill Diaz wrote:
> > >Mark,
> > > When first connecting to port 10151, AFilter will process the entire
> > 8
> > > hour
> > >dump. Once all of the initial data has been processed and filtered, it
> > will
> > >respond to user input in a timely manner. The amount of time required
> > >depends
> > >on connection speed, processor speed etc. Depending on the time of
> > day,
> > >my 450
> > >MHz Pentium II will process this in 2-4 minutes when connected at
> > >44000. Your
> > >mileage may vary.
> >
> >
> >
> > ---
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> >
> > ---
> > You are currently subscribed to aprssig as: ALLAN.SADOWSKI@NCSHP.ORG
> > To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
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```

### 1173. [aprssig] Re: T238 and iButton station

From: Steve Dimse <k4hg@tapr.org>  
Date: Mon, 26 Jun 2000 15:50:22 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93122-2000.06.26-14.55.15--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 6/26/00 3:35 PM Anson Mount (amount@execpc.com) wrote:

>I hope that I'm not being redundant here but has anyone built and used  
>the combination of these two units as described in the July 2000 issue  
>of QST?  
>I'd like to try this for an APRS weather reporting station.  
>  
The production boards are not out yet, but the kits should be ready soon.  
There were a half-dozen or so beta test units, I do not know if any of  
the beta testers are on this sig, but they all are on the TAPR wxsig.  
That would be a good place to ask your questions.

Steve K4HG

---

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### 1174. [aprssig] RE: AFilter 1.18

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Mon, 26 Jun 2000 15:49:45 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93132-2000.06.26-15.53.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 02:50 PM 6/26/00, Sadowski, Allan wrote:

>Bill and Group  
>  
>I may be incorrect... but also... the parameters for Local Filter in  
>WinAPRS... WinAPRS is sensitive to whether it's tabs or spaces  
>in the parameters....  
>  
>If I recall correctly, it needs to be tabs... spaces - and it doesn't  
>work... and I don't think you even get an error message...

Done that, Like I said, I read the DOC's and have been an WinAPRS user for  
several years. Tabs are standard issue. I even used the list included  
with Afilter.

I finally did get Afilter working. By putting a check in Pass Calls in  
Budlist. Funny I never created a budlist. One would think putting a  
check in that would only pass callsigns in the budlist - it appears to work  
in the opposite manner.

73,

Mark  
KC7BXS

---

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### 1175. [aprssig] Hurricane ICON

From: "Lee Dahlen" <kd4tqz@qsl.net>  
Date: Fri, 23 Jun 2000 05:47:30 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93133-2000.06.26-15.58.07--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Consider the op contacted. Thx. de Lee/KD4TQZ

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## 1176. [aprssid] SUNSAT

From: deunju@juno.com  
Date: Mon, 26 Jun 2000 16:27:15 -0500  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-93141-2000.06.26-16.34.04--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 6-23-00 on a sunsat pass I observed stations: WB4APR and N4ZQ in SW KS  
DM97  
Dale Urban N0KQX  
Garden City Ks.

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## 1177. [aprssid] B8BKT-1 Flight Update...

From: Jim Duncan <ku0g@kcaprs.org>  
Date: Mon, 26 Jun 2000 17:25:11 -0500  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-93154-2000.06.26-17.30.07--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bill Young (KB0UZQ) and I talked over Field Day weekend. Given the "iffy-ness" of the arrival of the Kaymont balloon/parachute and the desire to try to include a school group, Bait-Bucket One will NOT fly this weekend....

I DO plan, however (with the proper permission) to attempt to fly the Bait-Bucket 0A (pronounced "a-way") with the KNSP launch scheduled for Saturday, July 1st, as a test-bed for the capsule.

This is contingent on finishing the capsule and doing ground testing which should take place by Wednesday...

More later....  
--  
73 de Jim, KU0G  
Chairman/Coordinator  
Kansas City APRS Working Group, W0APR  
First Alert Storm Team KMBC-TV9  
Mailto:ku0g@kcaprs.org  
Webpage: <http://www.kcaprs.org>

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## 1178. [aprssid] AOL Domain

From: "Joel B. Black" <jbblack@mindspring.com>  
Date: Mon, 26 Jun 2000 17:29:47 -0500  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-93156-2000.06.26-17.33.59--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I don't know about the rest of you, but I am receiving increasing amounts of SPAM from the aol.com domain. I realize that the people sending it are probably not actually using AOL, but all I can do is send a note to abuse@aol.com and block all messages from that domain. Until they fix their problem, anyone addressing an email to me directly from aol.com may not get viewed.

This is not to say that I won't screen the messages nor is it to say that I get an incredible amount of email from individuals it's just that "Delete" is almost gone from my delete key. :-)

Thanks,

Joel B. Black, K2SAT  
AMSAT.....32589

AMSAT Local Area Coordinator  
k2sat@amsat.org  
<http://www.mindspring.com/~jbblack>  
AO-10, AO-27, FO-20, FO-29, SO-35, UO-14  
TO-31, UO-22, UO-36

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## 1179. [aprssig] Triple balloon launch scheduled for upcoming weekend

From: "Mark D. Conner" <[mconner@null.net](mailto:mconner@null.net)>  
Date: Mon, 26 Jun 2000 17:43:14 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-93160-2000.06.26-17.48.47--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The Near Space Balloon Group (NSBG), HABITAT/SkyLab, and N9XTN will try for a triple APRS balloon launch this coming weekend. APRS will be on 144.340 MHz using calls of N3KKM-11, KA0JLF-11, and N9XTN-11. I-gate support is expected. We hope to be able to launch all three balloons in rapid succession (within 10-15 minutes of each other).

We will be using relatively small balloons of 600 grams for a maximum altitude of about 70,000 ft.

Weather permitting, we will launch on Saturday, July 1st at 7am CDT (1200 UTC) from near Manhattan, KS. Alternate dates are Sunday, 2 July and Tuesday, 4 July. So far the weather for July 1st and 2nd looks iffy with windy conditions and possible showers/thunderstorms.

KU0G/KB0UZQ may also participate with a capsule, depending on construction and testing.

See the links below for more information:  
<http://www.kcnet.com/~n3kkm/nearspace.html>  
<http://www.egroups.com/group/KNSP>

73 de Mark N9XTN

-----

Mark D. Conner  
E-mail: [mconner@null.net](mailto:mconner@null.net) [n9xtn@arrl.net](mailto:n9xtn@arrl.net)  
Homepage: <http://members.home.net/mconner1>  
"Arrogance and stupidity, all in the same package....how efficient of you!" - Ambassador Londo Mollari, Babylon 5

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---

## 1180. [aprssig] Re: AOL Domain

From: "Jeff Brenton" <[jeffb@espi.com](mailto:jeffb@espi.com)>  
Date: Mon, 26 Jun 2000 22:57:48 -0000  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: "aprssig" <[aprssig@tapr.org](mailto:aprssig@tapr.org)>  
Message-ID: <LYR842-93163-2000.06.26-18.01.54--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

AOL can't do anything about your problem, Joel. If it didn't come from one of their IP addresses, it isn't their responsibility, and the best they can do is threaten to sue the offender for improper use of their domain name... which is highly unlikely.

Talk to your ISP about spam filtering. For a while, a lot of ISPs defaulted to setting it on; now, most are turning it OFF unless requested, in part because it puts a tremendous load on the mail servers to sort it out, AND a lot of non-spam gets bounced.

Your use of a redirector, such as your AMSAT.ORG address, will also make spam filters difficult to organize, since the mail passes through AMSAT's server on the way to your ISP. That changes the rules... and a lot of spam that could be filtered out will get past.

I don't get a lot of spam, really. In part because I proactively attack the problem - I inform the operators of the servers whose security problems these people exploit of their problem, so they can fix them. I trace back to the originating system, where possible, and inform the ISP that they have a spammer in their midst... some have BIG financial punishments for spammers.

Soon, we're going one step further in reducing the spam received - all web pages with my email addresses on them will be changed, so that spambots won't be able to pick up on them. The old spam lists will still have me, but I'll whittle my way through their connectivity over the next few years....  
B-)

The best way to fight spammers is to consider it a sport, and take pleasure in getting them disconnected. Hitting <Del> makes them happy, 'cuz it's one less complaint to their ISP.

Jeff Brenton, Amateur Radio call sign KA9VNV  
<http://espi.com>  
Questionable web page: <http://dididahdahdidit.com>

---

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---

## 1181. [aprssig] Re: AOL Domain

From: Brendan Keyport <[bkeyport@uswest.net](mailto:bkeyport@uswest.net)>  
Date: Mon, 26 Jun 2000 16:16:11 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: [aprssig@tapr.org](mailto:aprssig@tapr.org)  
Message-ID: <LYR842-93172-2000.06.26-18.20.06--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>Talk to your ISP about spam filtering. For a while, a lot of ISPs defaulted  
>to setting it on; now, most are turning it OFF unless requested, in part  
>because it puts a tremendous load on the mail servers to sort it out, AND a  
>lot of non-spam gets bounced.

the ones that don't have it on, aren't offering it anymore, least  
around here. A bigwig threatening a lawsuit kinda got 'em to back  
off. :|

>The best way to fight spammers is to consider it a sport, and take pleasure  
>in getting them disconnected. Hitting <Del> makes them happy, 'cuz it's one  
>less complaint to their ISP.

You play by the anti-spam rulebook, or did you throw it out the window, too? :>

<laughing>

--

May Peace and Love be Yours,  
73 De N7UIE  
B Keyport

---

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---

## 1182. [aprssig] Fw: PM Streets Version 3.0?

From: [tljess@itexas.net](mailto:tljess@itexas.net) (Tom Essary)  
Date: Mon, 26 Jun 2000 18:49:51 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-93184-2000.06.26-18.43.54--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I just bought PM Streets USA 3.5 which includes Traveler. The PM is really  
3.0 ... the 4.0 won't work with APRS ... call Carol ... see the message  
below ... I got mine in only a few days. I worked great.

73's de Kd5Bwd  
TomE - Arlington Texas U.S. of A.  
[tljess@itexas.net](mailto:tljess@itexas.net)

Old Message:  
Subject: WinAPRS Mapping Software  
From: "William A. Carreira Jr." <[n1nfc@hotmail.com](mailto:n1nfc@hotmail.com)>  
Date: Sun, 25 Jun 2000 15:05:04 -0400

X-Message-Number: 18

This is a multi-part message in MIME format.

-----=\_NextPart\_000\_0009\_01BFDEB6.BE119260  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi,  
I have been away at sea for the past 80 days, so if I sound behind the times I apologize. I am looking to find out if there are any other CD software mapping programs that have been made compatible with WINAPRS besides Precision Mapping 3. I am unable to acquire a copy of the older version. I am very interested in installing one in my laptop for portable operations. Any help is appreciated.

73 de

Bill Carreira Jr.      Email:n1nfc@hotmail.com  
CAPT NREMT-I                :captkfd308@aol.com  
KINGSLAND FIRE RESCUE  
Kingsland, GA 31548

-----Original Message-----  
From: Chicago Map Corp <mail@chicagomap.com>  
To: Tom Essary <tljess@itexas.net>  
Date: Tuesday, June 20, 2000 8:33 AM  
Subject: Re: PM Streets Version 3.0?

Are you interested in this version for WINAPRS? If so, you can also use v. 3.5. We have both available for \$9.99 plus \$5.95 shipping and handling. To order, please call 800-257-9244, ext. 127. Thank you.

Tom Essary wrote:

> Can I still buy PM Streets USA Version 3.0? Any details would be helpful if  
> it is still available.  
>  
> Thanks,  
> Tom Essary - Arlington Texas U.S. of A.  
> tljess@itexas.net

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---

### 1183. [aprssig] RE: Afilter 1.18

From: "Dick Stanich" <dstanic@c2i2.com>  
Date: Mon, 26 Jun 2000 18:58:35  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93187-2000.06.26-19.02.24--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Read the install docs. Afilter is fired up before Winaprs. Winaprs has to be told to connect to Afilter. Afilter then connects to your servers. Don't wait to run Winaprs, do it right after you run Afilter.

In Winaprs TCP Server Settings, make sure you have the following 4 boxes checked: (only 4!)

Autostart TCP  
Feed (echo)  
Auto Re-connect  
Enable outgoing 3rd Party

Don't forget the <tabs>like localhost<tab>3033<tab>Local Filter 1  
The tab key is found on most keyboards, they create spaces between fields.

This is what you should have in your files:

APRSERVE.TXT  
localhost 3033 Local Filter 1  
localhost 3033 Local Filter 2

APRSXTRA.TXT  
localhost 3033 Local Filter 3  
localhost 3033 Local Filter 4

ASERVE.TXT  
first.aprs.net 23 First Port 23  
second.aprs.net 23 Second Port 23  
aprs.socal.clubnet.net 23 Socal Secondary 23  
n9uur.aprs.net 23 Milwaukee 23  
#if you use port 10151, you'll get a long dump of stations that  
#probably aren't there anymore! Also, Afilter will re-connect to the next  
#server in rotation each time you lose one.

Once Afilter is fired up... fire up Winaprs. Don't do anything. Afilter  
will attempt a dial up to the internet (Dialup networking).

>From there you can add stations to STATIONS.TXT in real time, also hit the  
'add stations.txt to the Budlist' button. Play with it and either Bill or I  
can get you going. You'll love it after you get used to it.

Dick, KB7ZVA  
Yuma Igate  
Southwest Arizona APRS Group

---

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---

## 1184. [aprssi] RE: AFilter 1.18

From: John Vause <jdv@iglou.com>  
Date: Mon, 26 Jun 2000 21:21:29 -0400  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssi@lists.tapr.org>  
Message-ID: <LYR842-93200-2000.06.26-20.22.40--lyris.aprssi@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I had to turn ON "pass calls in budlist" and "pass all stations within"  
before WinAPRS (v.2.47) would actually accept the data from Afilter  
(running v. 1.18).

I could open the localhost port and WinAPRS would show port 3033 open  
but no data would transfer until I turned on the options that I  
indicated above.

73

Bill Diaz wrote:

>  
> Mark,  
> If possible try the following when not connected to the net.  
>  
> Start AFilter. Select a server and port.  
>  
> Check "Pass all stations within:  
> Set the distance filter to 1000 miles.  
>  
> Enter your callsign including ssid if used.  
> Enter your latitude and longitude.  
> Hit the reload button to register your location.  
>  
> Start WinAprs, Select Local filter.  
> AFilter should then initiate the dialing or connect sequence.  
>  
> When the server connection is established, the AFilter left connection circle  
> (server) will be green.  
> If connected to WinAprs, the AFilter right connection circle (client) will be  
> green.  
> If client is red, WinAprs has not connected to AFilter.  
>  
> Once AFilter is connected data should start appearing in the main window.  
> Beneath this window are 3 status bars. The top bar will display connection  
> status or errors. The middle bar will display data coming from WinAprs. The  
> bottom bar displays data being sent to WinAprs if connected. If not connected,

```

> this bar displays data that passed the filters.
>
> If you still cannot pass data to WinAprs, please provide details on AFilter
> setup, and Aserve.txt contents.
>
> Bill KC9XG
>
> On Monday, June 26, 2000 1:18 PM, Mark Fellhauer [SMTP:sparkfel@primenet.com]
> wrote:
> > I seem to have a bigger problem, and If I recall this happened to me with
> > earlier variants. I can't seem to get Afilter communicating to
> > WinAPRS. I've read the docs - done the local port thing, but nothing gets
> > ported to WinAPRS. When I open the local port in WinAprs - Afilter
> > responds and connects, It even shows that a connect request has been made
> > from KC7BXS-3 to the APRS server. But no "packets" ever seem to reach
> > WinAPRS (Afilter is running and displaying). I've played with the
> > settings to no avail. This shouldn't be that hard... :)
> >
> > What am I doing wrong?
> >
> > Mark
> >
> >
> > At 06:21 AM 6/26/00, Bill Diaz wrote:
> > >Mark,
> > > When first connecting to port 10151, AFilter will process the entire 8
> > > hour
> > >dump. Once all of the initial data has been processed and filtered, it will
> > >respond to user input in a timely manner. The amount of time required
> > >depends
> > >on connection speed, processor speed etc. Depending on the time of day,
> > >my 450
> > >MHZ Pentium II will process this in 2-4 minutes when connected at
> > >44000. Your
> > >mileage may vary.
> >
--
* John Vause KF4ERV jdv@igloudot.com *
* NOTE: email address altered for benefit of Spambots *

* "Ponder this - Your only purpose in life may be to *
* serve as a warning to others."
*
--

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```

## 1185. [aprssig] RE: AFilter 1.18

```

From: Bill Diaz <billdiaz@megsinet.net>
Date: Mon, 26 Jun 2000 20:21:17 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-93203-2000.06.26-20.25.36--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

John,

This has been fixed. Mark noted the same problem. I should have a new version ready for release in the next few days.

Bill KC9XG

```

On Monday, June 26, 2000 8:21 PM, John Vause [SMTP:jdv@iglou.com] wrote:
> I had to turn ON "pass calls in budlist" and "pass all stations within"
> before WinAPRS (v.2.47) would actually accept the data from Afilter
> (running v. 1.18).
>
> I could open the localhost port and WinAPRS would show port 3033 open
> but no data would transfer until I turned on the options that I
> indicated above.
>
> 73
>
> Bill Diaz wrote:
> >
> > Mark,
> > If possible try the following when not connected to the net.

```



```

> >
> > Start AFilter.  Select a server and port.
> >
> > Check "Pass all stations within:
> > Set the distance filter to 1000 miles.
> >
> > Enter your callsign including ssid if used.
> > Enter your latitude and longitude.
> > Hit the reload button to register your location.
> >
> > Start WinAprs,  Select Local filter.
> > AFilter should then initiate the dialing or connect sequence.
> >
> > When the server connection is established, the AFilter left connection
> > circle
> > (server) will be green.
> > If connected to WinAprs, the AFilter right connection circle (client) will
> > be
> > green.
> > If client is red, WinAprs has not connected to AFilter.
> >
> > Once AFilter is connected data should start appearing in the main window.
> > Beneath this window are 3 status bars.  The top bar will display connection
> > status or errors.  The middle bar will display data coming from WinAprs.
> > The
> > bottom bar displays data being sent to WinAprs if connected.  If not
> > connected,
> > this bar displays data that passed the filters.
> >
> > If you still cannot pass data to WinAprs, please provide details on AFilter
> > setup, and Aserve.txt contents.
> >
> > Bill KC9XG
> >
> > On Monday, June 26, 2000 1:18 PM, Mark Fellhauer
> > [SMTP:sparkfel@primenet.com]
> > wrote:
> > > I seem to have a bigger problem, and If I recall this happened to me with
> > > earlier variants.  I can't seem to get Afilter communicating to
> > > WinAPRS.  I've read the docs - done the local port thing, but nothing
> > > gets
> > > ported to WinAPRS.  When I open the local port in WinAprs - Afilter
> > > responds and connects, It even shows that a connect request has been made
> > > from KC7BXS-3 to the APRS server.  But no "packets" ever seem to reach
> > > WinAPRS (Afilter is running and displaying).  I've played with the
> > > settings to no avail.  This shouldn't be that hard... :)
> > >
> > > What am I doing wrong?
> > >
> > > Mark
> > >
> > >
> > >
> > > At 06:21 AM 6/26/00, Bill Diaz wrote:
> > > >Mark,
> > > > When first connecting to port 10151, AFilter will process the entire
8
> > > >
> > > > hour
> > > > >dump.  Once all of the initial data has been processed and filtered, it
> > > > >will
> > > > >respond to user input in a timely manner.  The amount of time required
> > > > >depends
> > > > >on connection speed, processor speed etc.  Depending on the time of day,
> > > > >my 450
> > > > >MHZ Pentium II will process this in 2-4 minutes when connected at
> > > > >44000.  Your
> > > > >mileage may vary.
> > > >
> > >
> > --
> * John Vause  KF4ERV  jdv@igloudot.com *
> * NOTE: email address altered for benefit of Spambots *
>
> * "Ponder this - Your only purpose in life may be to *
> * serve as a warning to others."
> *
> --

```

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## 1186. [aprssig] Re: T238 and iButton station

From: "Aaron Morrison" <ae4ko@amsat.org>  
Date: Mon, 26 Jun 2000 22:47:43 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93221-2000.06.26-21.51.36--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 26 Jun 2000, at 14:35, Anson Mount wrote:

> I hope that I'm not being redundant here but has anyone built and used  
> the combination of these two units as described in the July 2000 issue  
> of QST?  
> I'd like to try this for an APRS weather reporting station.  
>  
> Thanks,  
>  
> Anson/n9rjx

Anson,

I am one of the beta testers for the T238, and have built a station based on the Dallas 1-wire weather kit and the TAPR T238 kit. I have it currently set up connected directly to a KPC TNC set to our local APRS network. You can see the results of the telemetry by visiting Steve's findu.com site (shameless plug <grin>) at <http://wx.findu.com/ae4ko-1>

I'll answer your very general question with a general answer:

It works as advertised.

It was an easy kit for me to put together, and should be easy for anyone skilled with a soldering iron. Beyond that, let me know if you have any particular questions.

You can look at the project page at:  
<http://www.beals5.com/wx/>

(There are links to other beta users that have their kits on the APRS network in there as well.)

73

Aaron, ae4ko

---

Random Quote:

Advertising (n): the science of arresting the human intelligence for long enough to get money from it.  
-- Stephen Leacock.

---

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## 1187. [aprssig] Re: T238 and iButton station

From: "Brian B. Riley" <brianbr@macconnect.com>  
Date: Mon, 26 Jun 2000 23:48:01 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93233-2000.06.26-22.50.32--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

----- Original Message -----

From: "Aaron Morrison" <ae4ko@amsat.org>  
Sent: Monday, June 26, 2000 10:47 PM

> On 26 Jun 2000, at 14:35, Anson Mount wrote:

>

> > I hope that I'm not being redundant here but has anyone built and used  
> > the combination of these two units as described in the July 2000 issue  
> > of QST?

> > I'd like to try this for an APRS weather reporting station.

>

> I am one of the beta testers for the T238, and have built a station  
> based on the Dallas 1-wire weather kit and the TAPR T238 kit.  
> I have it currently set up connected directly to a KPC TNC set to  
> our local APRS network. You can see the results of the telemetry  
> by visiting Steve's findu.com site (shameless plug <grin>) at  
> <http://wx.findu.com/ae4ko-1>  
>  
I can second the motion. Look at my weather site at  
<http://wx.findu.com/nlbq-3>

I made some minor mods to Will's code and re-assembled and downloaded  
it 9-10 days ago and the controller has run continuously without a  
glitch. The code and hardware seem pretty near bulletproof. I am also  
running it on a KPC3+.

--  
Brian B. Riley, N1BQ (ex-KA2BQE)  
<<http://www.wulfden.org>>

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## 1188. [aprssig] Rare Arkansas Earthquake

From: "Scott-KC5JGV" <[kc5jgv@arrrl.net](mailto:kc5jgv@arrrl.net)>  
Date: Tue, 27 Jun 2000 00:06:39 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-93266-2000.06.27-00.19.15--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-93266-2000.06.27-00.19.15--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Usually, when the earth moves in these parts it means that the hillside is  
sliding! Best thing to do then, is, well, run like hell! But tonight, about  
halfway between 8 and 9 p.m. the earth moved and shook and had the weirdest  
sound, like the ground was hollow. I live next to a line of Ozark Mountains,  
right behind my house and they sounded a hollow as a tube when the ground  
shook. What felt like a huge underground blast, was none other than a 3.9  
magnitude earthquake, 14.5 km down! The real odd thing was that is wasn't  
near the New Madrick fault, but just 22.9 mile from my house in northcentral  
Arkansas!

While 3.9 may not be much compared to the California boys, it sure did wake  
a few hillbillies up around here! Well, this has little to do about APRS, so  
far, anyway. It so happens that one of the local hams on APRS put the  
earthquake icon on APRS here in the area and it had all the information on  
strength and depth, location, ect. Which found its way here via APRSd and  
KK5XF-10 (local server). Thanks guys for the info!

73  
Scott

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---

## 1189. [aprssig] Re: Rare Arkansas Earthquake

From: Mark Fellhauer <[sparkfel@primenet.com](mailto:sparkfel@primenet.com)>  
Date: Tue, 27 Jun 2000 01:45:42 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-93282-2000.06.27-01.49.39--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-93282-2000.06.27-01.49.39--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

At 12:06 AM 6/27/00, Scott-KC5JGV wrote:

>While 3.9 may not be much compared to the California boys, it sure did wake  
>a few hillbillies up around here!

Having been through a 4.0 richter scale earthquake in Ohio, of all places,  
I can attest that even a "small" earthquake can literally shake you out of  
bed. My first impression by the sound and noise was that multiple  
lightning strikes hit the house I was staying in. My second impression was  
that a nearby LP tank farm had lit off. It turned out to be an earthquake  
with an epicenter about 15 miles away from me - under Lake Erie. Having  
lived most of my life in the Midwest and Arizona, an earthquake is not a

normal occurrence. Tornados - eh... Imposing massive heat - eh... Flash Floods - eh... Massive bug swarms - eh... Earthquake, WAHOO!

I'm glad someone put up the earthquake icon so I can see it on the APRS map.

73,

Mark  
KC7BXS

---

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## 1190. [aprssig] Linux and APRS

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Tue, 27 Jun 2000 02:06:01 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93283-2000.06.27-02.10.08--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

My thanks to all the people who helped me with installing LINUX and a big fat raspberry to the few who decided to be pedantic or just downright ugly in their responses to me.

Anyway, Redhat was definitely the way to go. I downloaded the image file and burned it to a CD ROM (Thank you, DSL connection!)  
RH 6.2 installed w/o a hitch.

Now I just have to figure out how to get RH talking to the Kingston NIC. Looking at their web site, it appears they have excellent support for Linux. We shall see. Time to RTFM.

73,

Mark  
KC7BXS

---

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## 1191. [aprssig] Discovered THD7 error

From: "Henk de Groot (EMN)" <Henk.de.Groot@emn.ericsson.se>  
Date: Tue, 27 Jun 2000 09:33:14 +0200  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93285-2000.06.27-02.37.18--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hello THD7 users,

Maybe this should be in the [aprsht] group but I don't follow that, maybe someone wants to forward it.

Yesterday I made an unpleasant discovery in my THD7E, version 2.0 prom. It refused to work in KISS with the latest TFPCX version in DAMA.

I'll spare you the details, but it turns out that the THD7E has the PERSIST value wrongly implemented. The HT does not transmit if you set PERSIST to 255 which is done in DAMA because the master controls channel access so you want immediate responses when the master polls you.

With PERSIST to 255 a TNC should transmit immediately at the next slot time, with PERSIST to 0 the TNC should never transmit. The THD7 does it the other way around however.

You can try this on your own unit:

cmd: PERSIST 255  
cmd: conv  
Hello

This should send the beacon text Hello without delay, but instead the THD7 is silent. The status indicates that the "Hello" beacon is waiting for transmission.

cmd: PERSIST 128

Now you see the pending beacon transmission going out!

cmd: PERSIST 0

cmd: conv

Hello

Now you see an immediate transmission while a proper implementation should never transmit. You see, it is the wrong way around!

When setting up the THD7 for packet and APRS use you have to be aware of this, otherwise the channel access will be too aggressive, causing more collisions than needed and decreasing the overall channel capacity.

A normal PERSIST table and THD7's values:

| #of users<br>on channel | TAPR<br>PERSIST | THD7<br>PERSIST |
|-------------------------|-----------------|-----------------|
| 1 (you)                 | 255             | 0               |
| 2                       | 128             | 128             |
| 3                       | 85              | 171             |
| 4                       | 64              | 192             |
| 8                       | 32              | 224             |

I made the assumption that PERSIST is 100% reverse in the THD7. I do not know if this is the case since the implementation details are not known.

When setting PERSIST to 64 because you are normally with 4 users on the channel makes your THD7 too aggressive. I don't know if the TM-D700 suffers from the same problem and if the new THD7A(G) model has the same problem as the THD7E. I only could verify the European version 2.0 chip but since it is wrong I suspect that at least the old THD7E and the THD7A have the same flaw.

I have not read about this before, so that's why I want to share this with you so you can use the proper settings when operating the THD7.

Kind regards,

Henk.

--

#####  
The difference between theory and practice in practice is bigger than the difference between theory and practice in theory.

Henk de Groot | Tel: +31 53 4505400 Ext: 5400  
<Henk.de.Groot@emn.ericsson.se> | Ericsson Business Mobile Networks

---

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## 1192. [aprssi] Re: earthmate modification

From: "Victorf" <vfraencl@nycap.rr.com>  
Date: Tue, 27 Jun 2000 07:08:31 -0400  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-93298-2000.06.27-06.13.30--lyris.aprssi@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

First let me state that I have never looked at an earthmate or tripmate. Are these units both designed around the Rockwell Jupiter engine? Is there access to the engine? If so, the Jupiter can be put into the NMEA mode permanently.

Just my 2 cents

Vic

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### 1193. [aprssig] D7 and WinAPRS Icons

From: "hasan schiers" <schiers@netins.net>  
Date: Tue, 27 Jun 2000 06:15:16 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: <aprssig@tapr.org>  
Message-ID: <LYR842-93300-2000.06.27-06.18.45--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I'm running WinAPRS 2.4.7 on a Win98SE machine. When my D7A(g) sends a position, WinAPRS shows nothing but a red dot for an icon for the vast majority of Icons that I can select with the D7. In fact, for the pre-defined icons in the d7, only one produces something other than a red dot in WinAPRS, that being the Kenwood "W"...which shows up as a yellow DF icon in WinAPRS.

Does anyone have a hint how to get a reasonable icon for a walking around D7 (I'm not using it in a car or fixed location). Please be very specific about how to set the D7. If I'm not using a pre-defined icon, I think it takes two values in the D7's "other" icon setting, a field and table value.

I'm assuming it's something in the way the D7a puts out its icons, because the D700 shows up as a car just fine.

tnx in advance, 73

hasan schiers  
schiers@netins.net  
N0AN

---

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### 1194. [aprssig] Re: Rare Arkansas Earthquake

From: "Brent Hildebrand" <bhildebrand@earthlink.net>  
Date: Tue, 27 Jun 2000 05:20:35 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93305-2000.06.27-07.25.23--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I have felt 3.9 quakes, and they can give you a stir when they are centered right below you. But having experienced 2 quakes > 7, there is no comparison. The big ones can throw you around, and make it hard to walk/run to get out of the house!

There is an unofficial APRS definition of a Quake object name. DDHHMMqRR. DDHHMM is the Day, hour and minute. "q" means Quake, and RR is the quake size. Having just Fingered the quake server, The Arkansas quake would be called: 270128q39.

Brent KH2Z

----- Original Message -----

From: Scott-KC5JGV <kc5jgv@arrl.net>  
To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Sent: Monday, June 26, 2000 10:06 PM  
Subject: [aprssig] Rare Arkansas Earthquake

> Usually, when the earth moves in these parts it means that the hillside is  
> sliding! Best thing to do then, is, well, run like hell! But tonight, about  
> halfway between 8 and 9 p.m. the earth moved and shook and had the weirdest  
> sound, like the ground was hollow. I live next to a line of Ozark Mountains,  
> right behind my house and they sounded a hollow as a tube when the ground  
> shook. What felt like a huge underground blast, was none other than a 3.9  
> magnitude earthquake, 14.5 km down! The real odd thing was that it wasn't  
> near the New Madrick fault, but just 22.9 mile from my house in northcentral

> Arkansas!  
>  
> While 3.9 may not be much compared to the California boys, it sure did wake  
> a few hillbillies up around here! Well, this has little to do about APRS, so  
> far, anyway. It so happens that one of the local hams on APRS put the  
> earthquake icon on APRS here in the area and it had all the information on  
> strength and depth, location, ect. Which found its way here via APRSd and  
> KK5XF-10 (local server). Thanks guys for the info!  
>  
> 73  
> Scott  
>  
>  
> ---  
> You are currently subscribed to aprssig as: bhldebrand@earthlink.net  
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org  
>  
>

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## 1195. [aprssig] findu parameters

From: Steve Dimse <k4hg@tapr.org>  
Date: Tue, 27 Jun 2000 08:30:05 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93309-2000.06.27-07.34.01--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In looking over the error logs for the server, I see a lot of people are doing things like:

<http://www.findu.com/cgi-bin/wxnear.cgi?k4hg>

While a few of the cgi's accept callsigns alone (generally those with no other parameters like find) most require you to enter "call=" before the callsign. This allows the use of multiple parameters. I didn't mention this before, but it is possible to alter the number of stations (between 1 and 50) displayed by the wxnear cgi with the limit parameter:

<http://www.findu.com/cgi-bin/wxnear.cgi?call=k4hg&limit=40>

If you would like to hide, rather than grey out, old reports, you can use noold=1:

<http://www.findu.com/cgi-bin/wxnear.cgi?call=k4hg&noold=1>

If you combine these two:

<http://www.findu.com/cgi-bin/wxnear.cgi?call=k4hg&limit=40&noold=1>

you may not see what you expect. For efficiency, the program gets reports from (limit) stations, and then does not display the ones with old reports. Say there are 12 old reports of the 40, then you will see 28 lines, not 40.

I know I need to document all these parameters better, but programming is so much more fun...

Steve K4HG

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## 1196. [aprssig] T238 board

From: Anson Mount <amount@execpc.com>  
Date: Tue, 27 Jun 2000 08:48:31 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93329-2000.06.27-08.52.34--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Does the T238 require a later version of the KPC-3 or can I use my older version 5?

Anson/n9rjx

---

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### 1197. [aprssig] Re: T238 board

From: "Brian B. Riley" <brianbr@macconnect.com>  
Date: Tue, 27 Jun 2000 12:05:54 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93365-2000.06.27-11.08.11--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

----- Original Message -----

From: "Anson Mount" <amount@execpc.com>  
Sent: Tuesday, June 27, 2000 9:48 AM

> Does the T238 require a later version of the KPC-3 or can I use my  
older  
> version 5?

Yes you can use the older firmware and then set up your position ID  
as BTEXT and an appropriate beacon for that (10-20 minutes), but do  
not turn digipeating on unless it is absolutely necessary. v5 will  
only do a single alias and it won't do callsign substitution.

--

Brian B. Riley, N1BQ (ex-KA2BQE)  
<<http://www.wulfden.org>>

---

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---

### 1198. [aprssig] RE: Rare Arkansas Earthquake

From: Jeff Reinhardt <jreinh@ix.netcom.com>  
Date: Tue, 27 Jun 2000 09:57:10 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93382-2000.06.27-12.02.38--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Cheer up! An earthquake is one of the few disasters you can have when  
the weather is decent! :-)

After a small one here in SoCal, a guy called a local radio station,  
saying he and his significant other were claiming responsibility for  
"making the earth move." The DJ responded, "3.1 - is that the best you  
could do?"

Jeff Reinhardt AA6JR  
(From the heart of Quake Country, where we use APRS to post their  
locations - had to get that in for Stan!)

---

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### 1199. [aprssig] kpc3+ for sale

From: "kc8ffv" <kc8ffv@msn.com>  
Date: Tue, 27 Jun 2000 13:30:37 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93390-2000.06.27-12.31.35--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi all I am selling a kpc3+ anyone who is interested can contact me at  
kc8ffv@home.com

---

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## 1200. [aprssig] Kpc3+ for sale

From: "kc8ffv" <kc8ffv@msn.com>  
Date: Tue, 27 Jun 2000 16:41:17 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93417-2000.06.27-15.44.07--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

to make it easy I should have done this in the first place.

The TNC has the newest firmware. I think that would be 8.3 It is approx 1 month old with 2 hours of use on it. I am selling it for a friend and he wants 140.00. The first person who confirms with me gets it. Also because I am selling it through my business I except credit cards ( no not paypal) So the first person to confirm with me and get me the information needed to complete the sale gets it and it will be shipped out within a day. ( alot quicker then most ham radio stores). Also I know it isnt related but he has a pcr-100 he wants to get rid of for 150.00. ( email me at kc8ffv@home.com not back to the list)

Jeff (kc8ffv)  
Kc8ffv@msn.com  
Jeff@k8sn.org

---

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## 1201. [aprssig] KPC2 for sale

From: "KC5G0I" <kc5goi@kc5goi.net>  
Date: Tue, 27 Jun 2000 15:59:56 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93427-2000.06.27-15.57.50--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hello everyone, I have a KPC2 ver 5.0 for sale. I am asking \$40 for it. It is in working order, and is on my IGATE at this time. It will be replaced by a PK-12 that I already own. Please send all replys directly to me and not the sig.

Thanks, Guy  
kc5goi@kc5goi.net

---

## 1202. [aprssig] Re: new version AGWPE--2000.61

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Tue, 27 Jun 2000 18:34:18 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93456-2000.06.27-18.38.16--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The new version is MUCH improved! It is now totally working with my SoundBlaster Live card. Before I could choose to RX or TX with the audio mixer but not at the same time. Now I can do both. Cool.

73,

Mark  
KC7BXS

At 04:08 PM 6/25/00, Bill Kearns wrote:

><http://pigeon.ee.auth.gr/sv2agw/>

---

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## 1203. [aprssig] B8BKT-1 Update....

From: Jim Duncan <ku0g@kcaprs.org>  
Date: Thu, 29 Jun 2000 19:03:15 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93460-2000.06.27-19.08.22--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

An afternoon without homework or other obligations allowed me to "play radio" and get some work done on BaitBucket I....Here's the latest information:

Laid out all the "pieces" on the living room floor and took a pre-construction digital photo.

Here are the "pieces": KPC-3+ TNC, MFJ-8621 Xcvr, \$0.99 Wal-Mart styrofoam bait bucket and lid, 2 pieces plastic sink piping 36" long, 1 piece plastic sink piping 18" long, Duct tape (the real thing yet!), Screaming Fluorescent Orange spray paint, 10' #12 insulated copper strand wire.

What happened this afternoon follows....

I started by separating the components and punching five small holes in the bottom of the bait-bucket. This will be the primary downlink antenna (an inverted ground plane). After setting the piping in place, I took small pieces of universe-holding-together duct tape to set the antenna elements into position.

After untaping Chessie (the cat) who decided that this was now the appropriate time to seek close physical contact with me while attempting to get into the bait-bucket (presumably thinking about hitching a ride to 90K+ feet), I began taping the outside of the bait-bucket.

I made six vertical passes from the edge of the opening around the bottom and back into the opening. After this step, I taped the bottom of the bucket leaving enough overhang on the side to tape over this. Final taping saw the bucket completely taped.

The final work this afternoon consisted of suspending the exterior of the capsule from a nearby tree-limb, I began spray painting the exterior with the aforementioned "hey look at me" orange paint.

Tonight's project will be to program the TNC, connect it to the radio and do some preliminary "on-air" testing to be certain all programming is set.

Tomorrow afternoon will see installation of the primary downlink antenna as well as the secondary beacon antenna. BTW: Radio Shack has the mini HT's (VHF and UHF) on sale for \$149 and \$169 respectively. I'm considering using an RS FRS radio (\$24.00) for the beacon transmitter. I MAY use this as a "sound transmitter" during the flight to detect the balloon burst....

Friday plans call for doing a test drop with the parachute from the top of one of the university buildings here at CMSU. If the drop (with dummy weight) is successful then we may fly solo after all....

N0LRF, Paul Stump, is loaning me a GPS-35 to provide the GPS data and I'm confident that this basic package will be deemed flight-worthy....

--

73 de Jim, KU0G  
Chairman/Coordinator  
Kansas City APRS Working Group, W0APR  
First Alert Storm Team KMBC-TV9  
Mailto:ku0g@kcaprs.org  
Webpage: <http://www.kcaprs.org>

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## 1204. [aprssi] Re: The preemting process

From: "Lumpy" <lumpy@digitalcartography.com>  
Date: Tue, 27 Jun 2000 21:32:37 -0400  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-93468-2000.06.27-20.34.50--lyris.aprssi@lists.tapr.org>  
Rendered body type: text/plain

> Henk de Groot wrote-  
> ...I did something on DIGI\_NED to to  
> build in preemptive digipeating...  
  
> I would like to have comments on this...

What I read of it sounds great. Post it or

send me a copy and I'll up date the current  
digi\_NED I'm running as TRILBY in northern  
Colorado. I'll have a week to experiment with  
it starting next Monday.

lumpy n0eq

---

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---

## 1205. [aprssig] KPC-2 is sold

From: "KC5G0I" <kc5goi@kc5goi.net>  
Date: Tue, 27 Jun 2000 20:47:30 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93472-2000.06.27-20.45.27--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I have a buyer for the KPC-2. Thanks everyone.

Guy,  
KC5G0I

---

## 1206. [aprssig] KPC3 Manual

From: Dale Seaburg <kg5lt@earthlink.net>  
Date: Tue, 27 Jun 2000 20:56:48 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93480-2000.06.27-21.02.16--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Sorry to be a bit off-topic, but my KPC3 just bit the dust. It hears,  
but no modulation. I seem to have misplaced, loaned or lost my manual.  
This is the earlier model - the one with the HD63B03 processor.

If anyone has a spare copy they would be willing to part with, I'd be  
more than happy to pay for it. Or, if someone could scan in the  
schematic and email to me that would be suitable. The later would be  
preferred, in the short-term.

No APRS until this gets repaired. Bummer! :-(

Thanks.

73 - Dale. KG5LT

---

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## 1207. [aprssig] Pictures, we got pictures!

From: Jim Duncan <ku0g@kcaprs.org>  
Date: Thu, 29 Jun 2000 21:42:21 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93496-2000.06.27-21.46.35--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I'll be posting the pictures I took of Bait-Bucket on a new webpage  
later tonight. The address will be:  
<http://www.kcaprs.org/baitbucket.htm>

Will post again as soon as the page is up....

--

73 de Jim, KU0G  
Chairman/Coordinator  
Kansas City APRS Working Group, W0APR  
First Alert Storm Team KMBC-TV9  
Mailto:ku0g@kcaprs.org  
Webpage: <http://www.kcaprs.org>

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## 1208. [aprssig] Re: KPC3 Manual

From: "David Hoffman" <ke4fgw@vol.com>  
Date: Tue, 27 Jun 2000 22:58:14 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Message-ID: <LYR842-93501-2000.06.27-22.02.38--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

In my manual, I only find the Parts Layout page, but no schematic. Was there actually a schematic available?

-----Original Message-----

From: Dale Seaburg <kg5lt@earthlink.net>  
To: TAPR APRS Special Interest Group <aprssid@lists.tapr.org>  
Date: Tuesday, June 27, 2000 10:00 PM  
Subject: [aprssid] KPC3 Manual

>Sorry to be a bit off-topic, but my KPC3 just bit the dust. It hears,  
>but no modulation. I seem to have misplaced, loaned or lost my manual.  
>This is the earlier model - the one with the HD63B03 processor.  
>  
>If anyone has a spare copy they would be willing to part with, I'd be  
>more than happy to pay for it. Or, if someone could scan in the  
>schematic and email to me that would be suitable. The later would be  
>preferred, in the short-term.  
>  
>No APRS until this gets repaired. Bummer! :-(  
>  
>Thanks.  
>  
>73 - Dale. KG5LT  
>  
>---  
>You are currently subscribed to aprssid as: ke4fgw@vol.com  
>To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org  
>

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## 1209. [aprssid] TM-V7A Software/Xmit Lock-Up

From: Matt <wa4tkg@netzero.net>  
Date: Wed, 28 Jun 2000 02:59:16 -0300  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-93502-2000.06.27-22.09.45--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

I have the Kenwood TM-V7A software program functioning with my pc.

I have a recurring problem of xmit lock-up whenever the pc finishes sending a packet to the xcvr.

Anyone able to tell me a solution to this OTHER than shut off the radio and allow it to re-set ?

MadMax rides again  
WA4TKG/7J6CAT  
Ratsonville

\_\_\_\_\_  
NetZero Free Internet Access and Email  
Download Now <http://www.netzero.net/download/index.html>  
Request a CDROM 1-800-333-3633  
\_\_\_\_\_

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## 1210. [aprssid] Re: [amsat-bb] Satellite Field Day!

From: jim hertel <stanara@wac.com>  
Date: Tue, 27 Jun 2000 20:12:52 -0700  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Cc: Bob Bruninga <bruninga@nadn.navy.mil>, amsat-bb@AMSAT.Org,  
TAPR APRS Special Interest Group <aprssid@tapr.org>  
Message-ID: <LYR842-93503-2000.06.27-22.17.10--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

Glenn Little wrote:

> At 07:38 PM 6/25/00 -0400, Bob Bruninga wrote:  
>

snipe

> Glenn  
> WB4UIV  
>  
>  
> -----  
>  
> snipe

I don't know what all the complaining is about ?  
I was at our field day location and worked the sat's good on the second pass  
that sat evening from the motorcycle with only a whip mobile antenna?  
My efforts where monitored by several in our group at the camp fire at our 6000  
foot elevation,  
I was suprized myself that I was heard..... Just lucky though? NO ... I was  
having fun!!!  
thanks for the points!

--  
Jim Hertel, n6kmr  
Stanara@wac.com

---  
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## 1211. [aprssig] N6TBQ-7 Coast to Coast Record Attempt

From: "Kurt O. Jauss" <kf6hjo@lightspeed.net>  
Date: Tue, 27 Jun 2000 20:55:03 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93506-2000.06.27-22.54.06--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

My Uncle is leaving Salinas Ca. Airport, enroute to  
Eastport Maine for a Coast to Coast World record attempt. He  
is flying a 1966 single engine Alon Aircoupe. He will have 11  
stops and will be flying with a friend. He plans to leave Wed  
6/28/00 about 5 am PDT and all hopes are to make the trip  
under 36 hours. Their plan is to land in Mich. for the night  
and finish the flight the next day.

We installed a tracking system on the plane consisting of a  
KPC-3, 2m Ht (on 144.39Mhz) at 1 watt and a GPSII+. All 4  
LTP's are being used on this trip.  
WIDE,WIDE every 00:02:03  
WIDE2-2 every 00:03:48  
WIDE4-4 every 00:06:37  
TRACE5-5 every 00:08:06

Sorry if this is overkill however this may be a historic  
trip and the local newspaper has a Link to  
<http://www.findu.com/cgi-bin/find.cgi?n6tbq-7>  
My brothers call is being used for this trip as this is a  
joint venture. If you have any questions about this Record  
breaking attempt, contact me via Email and I will try to  
answer them.

--  
Kurt O. Jauss  
kf6hjo@lightspeed.net  
3630.45N 11940.50W 144.39Mhz  
Selma Ca. {APRS Weather & GPS Tracker}  
SKYWARN member Hanford Ca. NWS/NOAA/HNX  
DOSAPRS/WAPRS/APRS+SA  
Want to find my truck?  
<http://www.findu.com/cgi-bin/find.cgi?kf6hjo-9>

---

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## 1212. [aprssig] Re: TM-V7A Software/Xmit Lock-Up

From: Tate - KC7ZRZU <kc7zru@cyberhighway.net>  
Date: Tue, 27 Jun 2000 21:49:29 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93507-2000.06.27-22.57.58--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi Ya Matt,

Just a SWAG - you may want to try totally deleting the program (see the readme.txt that came with it on how to get it all deleted), remember to save any setup files first. Then reinstall from scratch. It's a long shot - but will eliminate the software as the problem.

If that doesn't fix this:

Next thing will be to get the radio set the way you want and then download that to your PC (Read the Radio). Exit the software, restart the software and then try to reload the exact same deal to the radio.

Now - you've eliminated the software, if it doesn't fix this xmit lock up deal, it's very likely a problem in the V7A itself.

As a last step before sending your V7A to the radio doc:

You can also try building a functional copy of the PG-4S cable (see the URL in my sig block below) - way long shot is there may be a FUBAR in your PG-4S.

Process of elimination - good luck with it!

73

Matt wrote:

>  
> I have the Kenwood TM-V7A software program functioning with my pc.  
>  
> I have a recurring problem of xmit lock-up whenever the pc finishes  
> sending a  
> packet to the xcvr.  
>  
> Anyone able to tell me a solution to this OTHER than shut off the radio  
> and allow  
> it to re-set ?  
>  
> MadMax rides again  
> WA4TKG/7J6CAT  
> Ratsonville

--

|             |  |                 |
|-------------|--|-----------------|
| KC7ZRZU     |  | In Laramie Area |
| Laramie, WY |  | UARC Repeater   |
| DN71eh      |  | 146.610         |

"The Dungeon" online at <http://www.cyberhighway.net/~tateb>  
LINUX Powered

---

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---

## 1213. [aprssig] Re: TM-V7A Software/Xmit Lock-Up

From: Byron Smith <wa6ylb@theworks.com>  
Date: Tue, 27 Jun 2000 20:54:27 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: aprssig@tapr.org  
Message-ID: <LYR842-93508-2000.06.27-22.59.56--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Funny that you mention that. I tried to go laptop aprs with my D700, and it does this same thing. I notice there isnt any traffic, and when I listen to 144.390, the radio is sending constant "flags". I have to power it down and then back up to make it stop transmitting.

At 02:59 AM 06/28/2000 -0300, you wrote:  
>I have the Kenwood TM-V7A software program functioning with my pc.  
>  
>I have a recurring problem of xmit lock-up whenever the pc finishes  
>sending a  
>packet to the xcvr.  
>  
>Anyone able to tell me a solution to this OTHER than shut off the radio  
>and allow  
>it to re-set ?  
>  
>MadMax rides again  
>WA4TKG/7J6CAT  
>Ratsonville  
>  
>  
>  
>\_\_\_\_\_NetZero Free Internet Access and Email\_\_\_\_\_

---

>Download Now <http://www.netzero.net/download/index.html>  
>Request a CDR0M 1-800-333-3633  
>  
>  
>---

>You are currently subscribed to aprssig as: WA6YLB@THEWORKS.COM  
>To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

Byron Smith  
wa6ylb@theworks.com - Webpage: <http://www.theworks.com/~wa6ylb>  
wa6ylb@wa6ylb.#nca.ca.usa.noam  
ICQ 26114994

If a man makes a statement, deep in the forest, and there isn't a woman  
around to hear him, is he still wrong?

---

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---

## 1214. [aprssig] RE: [amsat-bb] Satellite Field Day!

From: "Michael P. Olbrisch" <kd9kc@elp.rr.com>  
Date: Wed, 28 Jun 2000 04:08:38 -0000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "'Bob Bruninga'" <bruninga@nadn.navy.mil>, <amsat-bb@AMSAT.Org>,  
"'TAPR APRS Special Interest Group'" <aprssig@tapr.org>  
Message-ID: <LYR842-93510-2000.06.27-23.14.47--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> -----Original Message-----  
> From: owner-AMSAT-BB@AMSAT.Org [mailto:owner-AMSAT-BB@AMSAT.Org]On  
> Behalf Of jim hertel  
> Sent: Wednesday, June 28, 2000 3:13 AM  
> To: Glenn Little  
> Cc: Bob Bruninga; amsat-bb@AMSAT.Org; TAPR APRS Special Interest Group  
> Subject: Re: [amsat-bb] Satellite Field Day!  
>  
>  
> camp fire at our 6000 foot elevation, I was suprized  
> myself that I was heard..... Just lucky though? NO ...  
> I was having fun!!! thanks for the points!  
>  
>  
> --  
> Jim Hertel, n6kmr  
> Stanara@wac.com

Heck, at 6000 ASL, you were just closer to the satellites  
than everybody else. <grin>

Mike.

Vy73, Mike. KD9KC MARS: AAV6EV  
kd9kc@elp.rr.com - kd9kc@amsat.org  
Home page: <http://www.qsl.net/kd9kc/>  
The farthest WEST ham in West Texas.

"Patriotism means to stand by the country. It  
does not mean to stand by the president...."

--Theodore Roosevelt

---

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---

### 1215. [aprssig] KPC 3+ sold

From: "jsn" <kc8ffv@home.com>  
Date: Wed, 28 Jun 2000 00:19:00 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93511-2000.06.27-23.20.25--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Sorry everyone the unit has been sold. I still do have the icom pcr-100 for 150.00 if anyone wants it

Jeff

---

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---

### 1216. [aprssig] Anyone Using and Older KAM for APRS?

From: "Jake" <jake@trib.com>  
Date: Tue, 27 Jun 2000 23:23:54 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93535-2000.06.28-00.25.37--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Is anyone out there using an older KAM Version 2.85 for a digi?

I need pointers on settings.

Thanks

Tim/KJ7AZ

---

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---

### 1217. [aprssig] Re: N6TBQ-7 Coast to Coast Record Attempt

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Wed, 28 Jun 2000 01:46:29 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93538-2000.06.28-01.50.52--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Many years ago when I was in Aviation Explorers and ground school, I came to the conclusion that the Ercoupe was the ugliest airplane ever manufactured. BUT they do have a loyal following. I think the Wood County Airport in Bowling Green, Ohio has the largest per-capita population of these little planes, or at least it did in the early 1980's.

It truly is a remarkable little aircraft, the originals have no rudder pedals. If you want to see a picture of the ugly little cuss, check out:

<http://www.ercoupe.com/>

or

<http://www.ercoupers.com/>

Good luck to your uncle,

Mark  
KC7BXS

Maybe you could post a planned flight route and schedule so we know where to look.



At 10:55 PM 6/27/00, Kurt O. Jauss wrote:

> My Uncle is leaving Salinas Ca. Airport, enroute to  
>Eastport Maine for a Coast to Coast World record attempt. He  
>is flying a 1966 single engine Alon Aircoupe.

---

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---

## 1218. [aprssig] Re: N6TBQ-7 Coast to Coast Record Attempt

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Wed, 28 Jun 2000 02:08:33 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93540-2000.06.28-02.12.35--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

If you don't believe me that Bowling Green, Ohio has the largest population of Ercoupes, here's a link to to Bowling Green State University's Archives.

<http://www.bgsu.edu/colleges/library/cac/ms0162a.html>

73,

Mark  
KC7BXS

---

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---

## 1219. [aprssig] Alert "bell"?

From: "Ev Tupis (W2EV)" <propnet@greeceny.com>  
Date: Wed, 28 Jun 2000 06:12:29 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93550-2000.06.28-05.40.56--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Is there a method of sending a "bell" command to a station of my choosing? I'd like to attempt to get their attention audibly, should they be busy around the shack and not paying attention.

Ev, W2EV

---

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---

## 1220. [aprssig] Re: Alert "bell"?

From: "Brent Hildebrand" <bhildebrand@earthlink.net>  
Date: Wed, 28 Jun 2000 05:45:25 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93567-2000.06.28-07.49.31--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Probably depends on the program. APRS+SA allows for embedding words that will either be played as WAV files or spoken via MS-Agent as Text-to-speech. To do this, you prefix the word or works with a "%". Example, if the target station as a BELL.WAV file, you can send %bell. If the target station has Text-to-speech turned on, then the work "bell" will be spoken. Of course the entire line of a message or bulletin can be enabled to be read back via text-to-speech. APRSdos has this capability but sends Morse Code for the embedded word. The D700 also adapted this and uses its speech generator to either read the word out, or spell it.

So in answer to your question, Maybe.

Brent KH2Z

> Is there a method of sending a "bell" command to a station  
> of my choosing? I'd like to attempt to get their attention  
> audibly, should they be busy around the shack and not paying  
> attention.

>  
> Ev, W2EV  
>  
>  
> ---  
> You are currently subscribed to aprssig as: bhldebrand@earthlink.net  
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org  
>  
>

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---

## 1221. [aprssig] APRS-SIG Event list for 6-28-2000

From: K3for@aol.com  
Date: Wed Jun 28 09:02:56 2000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93569-2000.06.28-08.06.57--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

APRS-SIG Event list for 6-28-2000 published weekly to aprssig@lists.tapr.org  
All events welcome. Send posts to k3for@aol.com in fixed-character format  
like the table below. View table in fixed 80 column width for even  
spacing. 73's Skip/K3FOR/Annapolis

| DDMM  | LOCAT | START/STOP/DUR | FREQS USED    | CALLS                             | EVENT                                                                            |
|-------|-------|----------------|---------------|-----------------------------------|----------------------------------------------------------------------------------|
| 28JUN | US    | 0500PDT/36hrs  | 144.390APRS   | n6tbq-7                           | west coast/east coast<br>record flight attempt<br>kf6hjo@lightspeed.net          |
| 01JUL | KS    | 1200UTC        | 144.340APRS   | N3KKM-11<br>KA0JLF-11<br>N9XTN-11 | 70kfoot triple balloon<br>launch by NSBP in<br>Manhattan, KS<br>mconner@null.net |
| 02JUL | KS    | 1200UTC        | alternate for | 01JUL                             |                                                                                  |
| 02JUL | MO    | 1400CDT        | 144.39APRS    | KU0G                              | BaitBucket1 launch<br>ku0g@kcaprs.org<br>www.kcaprs.org/baitbucket.htm           |
| 04JUL | KS    | 1200UTC        | alternate for | 01JUL                             |                                                                                  |

Sent to aprssig@lists.tapr.org every few days as event  
scheduling is requested. Events posted informally to the SIG in  
paragraph format are not automatically put in, please help out by  
providing the above format.

---  
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## 1222. [aprssig] N6TBQ-7 Coast to Coast Record Attempt part 2

From: "Kurt O. Jauss" <kf6hjo@lightspeed.net>  
Date: Wed, 28 Jun 2000 06:11:21 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93571-2000.06.28-08.10.24--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I have been asked to send a planned flight route for my  
uncle. Here is what my aunt sent me.  
As of 6 am PDT no packets received. Tracker was checked  
yesterday however, the power port on the plane has not been  
checked. Darn!

My Husband and another pilot leave from the Salinas, Airport,  
tomorrow  
in a attempt too set a world record. The records they're after  
are the  
city-to-city speed travel by a plane; the national and  
transcontinental  
record for the shortest time of travel; and the coast-to-coast  
record  
for the shortest time of travel from Salinas to Eastport,  
Maine. The  
Attempt is approved by the National Aeronautics Association.  
The records  
will be in the C-1B category, the classification for planes  
weighing

between 1,102 and 2,205 pounds. The two of them have a combined 80 years of air experience.

The plane is a Alon Aircoupe some 35 years-old. They won't travel in a straight line, rather they will go in and arch called the "great circle route." Stops will be at Hawthorne, Nev. Wendover, Utah, Rock Springs, Wyo., Chadron, Neb., Huron, S.D. Minneapolis, Iron Mountain, Mich., Sault Ste. Marie, Mich., North Bay, Ontario, Canada, Highgate, Vt. and arrival at East port, Maine about 3:00 PM. Thursday.

In all, the trip will cover 12 states and one Canadian province.

The plane and him, has caught the eye of the press here. both the plane and his face has been plastered all over the papers and T.V. the local press will be there at 4 in the morning too take pictures of it's departure. The phone has rang off the hook today with CBS, and NBC from TV Stations, wanting interviews. The press will be waiting for them at Eastport, more than likely National Press will pick it up.

I thought I would share if you happen too see her fly over she is 3 different colors of gray. Her call letters are N6596Q. We have a tracker on her but it is giving some problems if we get it to work between now and morning will give you the URL for it.

Audean Woollard  
Salinas, California. N6596Q

--  
Kurt O. Jauss  
kf6hjo@lightspeed.net  
3630.45N 11940.50W 144.39Mhz  
Selma Ca. {APRS Weather & GPS Tracker}  
SKYWARN member Hanford Ca. NWS/NOAA/HNX  
DOSAPRS/WAPRS/APRS+SA  
Want to find my truck?  
<http://www.findu.com/cgi-bin/find.cgi?kf6hjo-9>

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---

## 1223. [aprssig] Special Events and findu.com

From: Steve Dimse <k4hg@tapr.org>  
Date: Wed, 28 Jun 2000 09:52:20 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93574-2000.06.28-08.56.19--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I would like people to be aware of the possibility of supporting special events on findu.com. If you are planning some sort of special event with a tracker, it is possible to have a special tracking page, with info about the event and any links you would like.

An example is the bigride page:

<http://bigride.findu.com>

This page is being heavily used by friends and relatives of the riders, getting between 1k and 2k hits per day. It is linked to by the Americal Lung Association and Radio Shack web pages, and many of the individual riders' pages.

Events like this are great ways to get publicity for APRS and ham radio in general. I've fielded a couple dozen emails from people wanting more info about the system, and a couple people have even expressed an interest in getting ham licenses.

If you are planning an event and would like a page, I need you to write a mockup of the page in html. Writing in native html is better than using a WYSIWYG editor, as the latter create much extraneous code that is difficult to translate. Send it to me along with any graphics called by the page, and what name you want the page to be accessed through (e.g. bigride). I'll convert the page to a cgi and make the DNS and Apache config changes to allow the URL to work. It is also possible for me to set things up to work with a domain you control, for example ;

<http://track.microship.com>

For this to work I need you to create a DNS record that points to 64.34.101.121, and let me know what the url is so that I can configure Apache to serve it correctly.

And please, do this early in the planning for the event, I hate last minute scrambles...

Steve K4HG

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## 1224. [aprssig] kpc3+ for sale.

From: "kc8ffv" <[kc8ffv@msn.com](mailto:kc8ffv@msn.com)>  
Date: Wed, 28 Jun 2000 12:31:52 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-93628-2000.06.28-11.32.59--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-93628-2000.06.28-11.32.59--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Hi all I have another TNC for sale. I am excepting Credit Cards or paypal only on this. I need 140.00 plus shipping. First person to Confirm the order with me gets the unit. Or you can call 616 538 6130 as for Jeff I am here untell 5 pm today it is 1230pm right now

Jeff

p.s. sorry I know there were a few others who emailed me but I lost the addresses

---

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## 1225. [aprssig] Re: KPC3 Manual

From: "Mike Yetzko" <[myetzko@insydesw.com](mailto:myetzko@insydesw.com)>  
Date: Wed, 28 Jun 2000 13:25:58 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-93635-2000.06.28-12.28.09--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-93635-2000.06.28-12.28.09--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

I can scan my manual if you'd like and email it to you, but there is no schematic. Although if I recall the schematic was floating around on some of the old BBS sites for a while, so I imagine it's on the web as well, if you look hard enough.

Mike

> Sorry to be a bit off-topic, but my KPC3 just bit the dust. It hears,  
> but no modulation. I seem to have misplaced, loaned or lost my  
manual.  
> This is the earlier model - the one with the HD63B03 processor.  
>  
> If anyone has a spare copy they would be willing to part with, I'd be  
> more than happy to pay for it. Or, if someone could scan in the  
> schematic and email to me that would be suitable. The later would be  
> preferred, in the short-term.  
>  
> Thanks.

>  
> 73 - Dale. KG5LT

---  
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---

## 1226. [aprssig] Re: N6TBQ-7 Coast to Coast Record Attempt

From: Robbie Robertson <mrobertson@mediaone.net>  
Date: Wed, 28 Jun 2000 13:10:31 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93642-2000.06.28-13.14.32--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

"Kurt O. Jauss" wrote:

>  
> My Uncle is leaving Salinas Ca. Airport, enroute to  
> Eastport Maine for a Coast to Coast World record attempt. He  
> is flying a 1966 single engine Alon Aircoupe. He will have 11  
> stops and will be flying with a friend. He plans to leave Wed  
> 6/28/00 about 5 am PDT and all hopes are to make the trip  
> under 36 hours. Their plan is to land in Mich. for the night  
> and finish the flight the next day.

>  
> We installed a tracking system on the plane consisting of a  
> KPC-3, 2m Ht (on 144.39Mhz) at 1 watt and a GPSII+. All 4  
> LTP's are being used on this trip.  
> WIDE,WIDE every 00:02:03  
> WIDE2-2 every 00:03:48  
> WIDE4-4 every 00:06:37  
> TRACE5-5 every 00:08:06

>  
> Sorry if this is overkill however this may be a historic  
> trip and the local newspaper has a Link to  
> <http://www.findu.com/cgi-bin/find.cgi?n6tbq-7>  
> My brothers call is being used for this trip as this is a  
> joint venture. If you have any questions about this Record  
> breaking attempt, contact me via Email and I will try to  
> answer them.

>  
> --  
> Kurt O. Jauss  
> kf6hjo@lightspeed.net  
> 3630.45N 11940.50W 144.39Mhz  
> Selma Ca. {APRS Weather & GPS Tracker}  
> SKYWARN member Hanford Ca. NWS/NOAA/HNX  
> DOSAPRS/WAPRS/APRS+SA  
> Want to find my truck?  
> <http://www.findu.com/cgi-bin/find.cgi?kf6hjo-9>  
>  
> ---

Findu.com reports nothing for many hours, are they in  
the air or not?

Robbie

--  
-----  
Are we having fun yet?  
73 - Robbie - WA9INF  
\*\*\*\*\* --... -- \*\*\*\*\*

---  
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---

## 1227. [aprssig] APRS-SIG Event list for 6-28-2000 (rev)

From: K3for@aol.com  
Date: Wed Jun 28 15:02:22 2000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93652-2000.06.28-14.06.27--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

APRS-SIG Event list for 6-28-2000 published weekly to [aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)  
 All events welcome, even if far off. Send posts to [k3for@aol.com](mailto:k3for@aol.com) in  
 fixed-character format like the table below. View table in fixed 80 column  
 width for even spacing. 73's Skip/K3FOR/Annapolis

| DDMM  | LOCAT              | START/STOP/DUR | FREQS USED    | CALLS                             | EVENT                                                                                                                                                          |
|-------|--------------------|----------------|---------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 19JUN | USA                |                | APRS VHF/HF   | KE7A-9                            | American Lung Association                                                                                                                                      |
| to    |                    |                |               |                                   | Big Ride Across America                                                                                                                                        |
| 06AUG | Seattle to Wash DC |                |               |                                   | <a href="http://bigride.findu.com">http://bigride.findu.com</a>                                                                                                |
| 28JUN | US                 | 0500PDT/36hrs  | 144.390APRS   | n6tbq-7                           | west coast/east coast<br>record flight attempt<br><a href="mailto:kf6hjo@lightspeed.net">kf6hjo@lightspeed.net</a>                                             |
| 01JUL | KS                 | 1200UTC        | 144.340APRS   | N3KKM-11<br>KA0JLF-11<br>N9XTN-11 | 70kfoot triple balloon<br>launch by NSBP in<br>Manhattan, KS<br><a href="mailto:mconner@null.net">mconner@null.net</a>                                         |
| 02JUL | KS                 | 1200UTC        | alternate for | 01JUL                             |                                                                                                                                                                |
| 02JUL | MO                 | 1400CDT        | 144.39APRS    | KU0G                              | BaitBucket1 launch<br><a href="mailto:ku0g@kcaprs.org">ku0g@kcaprs.org</a><br><a href="http://www.kcaprs.org/baitbucket.htm">www.kcaprs.org/baitbucket.htm</a> |
| 04JUL | KS                 | 1200UTC        | alternate for | 01JUL                             |                                                                                                                                                                |
| 24JUL | Utah               | 0800MDT/10hrs  | 144.390APRS   | Lead/Sweep                        | Deseret News Salt Lake<br>Marathon & 10K de NY4I<br><a href="mailto:utahaprs@qsl.net">utahaprs@qsl.net</a>                                                     |

Sent to [aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org) every few days as event  
 schedulings are requested. Events posted informally to the SIG in  
 paragraph format are not automatically put in, please help out by  
 providing in the above format.

---

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## 1228. [aprssig] RDU Digi

From: "Sadowski, Allan" <[allan.sadowski@ncshp.org](mailto:allan.sadowski@ncshp.org)>  
 Date: Wed, 28 Jun 2000 15:13:13 -0400  
 To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
 Message-ID: <LYR842-93655-2000.06.28-14.12.33--lyris.aprssig#tapr.org@lists.tapr.org>  
 Rendered body type: text/plain

Anyone know what happened to the RDU area digi's? It's dead these days...  
 sure miss RDU's digi...

ALOHA  
 AH6LS

---

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## 1229. [aprssig] BaitBucket I update....

From: Jim Duncan <[ku0g@kcaprs.org](mailto:ku0g@kcaprs.org)>  
 Date: Wed, 28 Jun 2000 14:15:22 -0500  
 To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
 Message-ID: <LYR842-93657-2000.06.28-14.19.40--lyris.aprssig#tapr.org@lists.tapr.org>  
 Rendered body type: text/plain

I just finished posting the pictures I took of Bait-Bucket on a new  
 webpage for the balloon project. The address is:  
<http://www.kcaprs.org/baitbucket.htm>

This page is now up and operational...enjoy!

--

73 de Jim, KU0G  
 Chairman/Coordinator  
 Kansas City APRS Working Group, W0APR  
 First Alert Storm Team KMBC-TV9  
[Mailto:ku0g@kcaprs.org](mailto:ku0g@kcaprs.org)  
 Webpage: <http://www.kcaprs.org>

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## 1230. [aprssig] N6TBQ-7 update

From: "Kurt O. Jauss" <kf6hjo@lightspeed.net>  
Date: Wed, 28 Jun 2000 12:53:09 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93671-2000.06.28-14.52.10--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The plane was delayed by fog and a vacuum pump for the gyro. It left the ground at 9:30 PDT. I am still trying to get the tracker up and running. It worked in front of his house and in front of my brothers work, however it doesn't seem to work in the plane. I am hoping it is a power problem i.e. Cigarette lighter fuze blown. I have been in contact with Wayne's wife and she, in contact with him. He will check the power problem and will try to raise the tracker box higher in the cockpit to clear the side of the plane at the next fuel stop. We're still trying to solve these problems. This will teach me to open my mouth until it's in the air next time. <g>

--  
Kurt O. Jauss  
kf6hjo@lightspeed.net  
3630.45N 11940.50W 144.39Mhz  
Selma Ca. {APRS Weather & GPS Tracker}  
SKYWARN member Hanford Ca. NWS/NOAA/HNX  
DOSAPRS/WAPRS/APRS+SA  
Want to find my truck?  
<http://www.findu.com/cgi-bin/find.cgi?kf6hjo-9>

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---

## 1231. [aprssig] Re: N6TBQ-7 update

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Wed, 28 Jun 2000 16:12:21 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93676-2000.06.28-15.16.38--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Trackers with RECEIVERS will not work in Airplanes usually because they will hear 100% channel busy. THus they will never transmit.

If it iis a KPC3, be sure that CD is set to SOFTWARE. THEN it will at least not just detect energy, but only good packets. THEN it should find time to transimt when collisions wipe out the data...

de WB4APR, Bob

On Wed, 28 Jun 2000, Kurt O.  
Jauss wrote:

> The plane was delayed by fog and a vacuum pump for the  
> gyro. It left the ground at 9:30 PDT. I am still trying to get  
> the tracker up and running. It worked in front of his house  
> and in front of my brothers work, however it doesn't seem to  
> work in the plane. I am hoping it is a power problem i.e.  
> Cigarette lighter fuze blown. I have been in contact with  
> Wayne's wife and she, in contact with him. He will check the  
> power problem and will try to raise the tracker box higher in  
> the cockpit to clear the side of the plane at the next fuel  
> stop. We're still trying to solve these problems. This will  
> teach me to open my mouth until it's in the air next time. <g>  
>  
> --  
> Kurt O. Jauss  
> kf6hjo@lightspeed.net  
> 3630.45N 11940.50W 144.39Mhz  
> Selma Ca. {APRS Weather & GPS Tracker}  
> SKYWARN member Hanford Ca. NWS/NOAA/HNX  
> DOSAPRS/WAPRS/APRS+SA  
> Want to find my truck?  
> <http://www.findu.com/cgi-bin/find.cgi?kf6hjo-9>  
>  
>  
>

> ---  
> You are currently subscribed to aprssig as: bruninga@nadn.navy.mil  
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>  
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org  
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060  
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>  
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>  
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

---

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---

## 1232. [aprssig] MIC-E Protocol/AEA TNC Interaction

From: "Curt Mills, WE7U" <hacker@tc.fluke.com>  
Date: Wed, 28 Jun 2000 14:07:43 -0700 (PDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: Curt Mills <hacker@tc.fluke.com>, "Curt Mills, WE7U" <BowHunter@mail.com>  
Message-ID: <LYR842-93683-2000.06.28-16.12.01--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Anyone using or supporting the use of AEA TNC's please read this.  
This describes a problem due to the compression technique used with  
MIC-E packets, requiring a few non-printable characters to be passed  
cleanly between TNC and computer:

I'm running experiments with a TinyTrak (it sends MIC-E protocol)  
and another setup with an AEA PK-88 TNC and APRS+SA or Xastir.

I found that the default "initaea.tnc" file for APRS+SA (likely  
other APRS software also?) causes the TNC to filter out the  
unprintable characters in the MIC-E protocol. I ran into the same  
problem recently trying to figure out AEA settings for Xastir.

The AEA default "mfilter" and "afilter" commands (thanks for that  
last one Bob) filter out most control characters before they reach  
the computer. The TNC sees a correct packet, but sends a  
corrupted packet up to the computer, which can then get  
retransmitted.

This is the fix I've been using for Xastir on Linux. It filters  
out only the 0x00 bytes, which is ok in this instance:

```
mfilter 0
```

Another command that "may" be useful is:

```
afilter 0
```

I don't use the "afilter" command 'cuz it filters control characters  
only during connected mode. I don't use that mode with APRS.

Would the software authors and anyone else using AEA TNC's please  
check your configuration files and modify as necessary? Please tell  
the rest of us if there are other settings that are needed. I'm no  
expert at TNC settings.

Curt Mills, WE7U hacker.NO\_\*SPAM@tc.fluke.com  
Senior Methods Engineer/SysAdmin  
"Lotto: A tax on people who are bad at math." -- unknown  
"Windows: Microsoft's tax on computer illiterates." -- WE7U

---

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---

## 1233. [aprssig] Re: MIC-E Protocol/AEA TNC Interaction

From: BordingK@aol.com  
Date: Wed, 28 Jun 2000 17:35:04 EDT  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>



Cc: BowHunter@mail.com  
Message-ID: <LYR842-93684-2000.06.28-16.40.16--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

I use several AEA PK-12s running WinAPRS 247 and MIC-Es, TH-D7s and TM-D700A show up fine. I have a TinyTrac about to go on the air in a week or so. I'll let you know.

DE W5KNB  
Ken

---

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---

## 1234. [aprssid] Re: MIC-E Protocol/AEA TNC Interaction

From: "Curt Mills, WE7U" <hacker@tc.fluke.com>  
Date: Wed, 28 Jun 2000 14:55:11 -0700 (PDT)  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Cc: aprssid@lists.tapr.org, "Curt Mills, WE7U" <BowHunter@mail.com>, Curt Mills <hacker@tc.fluke.com>  
Message-ID: <LYR842-93686-2000.06.28-16.59.11--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

On Wed, 28 Jun 2000 BordingK@aol.com wrote:

> I use several AEA PK-12s running WinAPRS 247 and MIC-Es, TH-D7s and TM-D700A  
> show up fine. I have a TinyTrac about to go on the air in a week or so.  
> I'll let you know.

It's only a problem when you are at a longitude that gets encoded with one or more non-printable characters, and you have the default mfilter set in your AEA TNC. You may not have seen the problem even though it exists. I suppose I'm just lucky to be in an area where I get those characters generated.

It should happen with MIC-E's, TinyTrak's, D7's, and D700's.

Curt Mills, WE7U hacker.N0\_\*SPAM@tc.fluke.com  
Senior Methods Engineer/SysAdmin  
"Lotto: A tax on people who are bad at math." -- unknown  
"Windows: Microsoft's tax on computer illiterates." -- WE7U

---

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## 1235. [aprssid] kpc3+ sold

From: "jsn" <kc8ffv@home.com>  
Date: Wed, 28 Jun 2000 21:46:19 -0400  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-93730-2000.06.28-20.48.28--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

the kpc3+ is sold

---

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---

## 1236. [aprssid] Publicity and findu.com

From: Steve Dimse <k4hg@tapr.org>  
Date: Wed, 28 Jun 2000 21:56:11 -0400  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-93734-2000.06.28-21.00.28--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

Apparently the pilots on this trans-continental flight mentioned my site on a TV interview, but just "www.findu.com". The lack of advanced warning and generic URL was bad enough, I was getting emails asking about it before I had a clue. Far worse that their tracker doesn't work, it makes my system look bad. I have had to handle more than 100 emails already to explain the situation. Even with a cut-and-paste response, I'm pretty much fed up...

So, I have three requests if you plan to mention findu.com to the general public (and I do want to encourage publicity!):

First, please give me advanced warning so we can set up an appropriate page, and please use the correct URL in your publicity.

Second, please make sure your tracker is going to work, it reflects badly on my system, APRS, and ham radio in general if it bonks!

Third, I would like someone involved in your project to volunteer their email address for the web page so they can handle the email response this sort of thing generates...

If anyone would like to take a stab at writing a good web page which explains, in about a screenful, what ham radio, APRS, and find.com are about in layperson's language, I would love to have it to link to on these special event pages.

Steve K4HG

---

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---

### 1237. [aprssig] Re: RDU Digi

From: "Tim Cunningham" <tim\_cunningham@mindspring.com>  
Date: Wed, 28 Jun 2000 15:15:24 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93736-2000.06.28-21.04.15--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I hit it a few weeks ago passing through RDU, but it is located a distance from the airport and hard to hit unless you find the right spot from the top floor...

Tim - N8DEU

-----Original Message-----

From: Sadowski, Allan <allan.sadowski@ncshp.org>  
To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Date: Wednesday, June 28, 2000 2:12 PM  
Subject: [aprssig] RDU Digi

>Anyone know what happened to the RDU area digi's? It's dead these days...  
>sure miss RDU's digi...  
>  
>AL0HA  
>AH6LS  
>  
>---  
>You are currently subscribed to aprssig as: tim\_cunningham@mindspring.com  
>To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org  
>

---

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

---

### 1238. [aprssig] Re: N6TBQ-7 update

From: Tom Busch <tomb@kiva.net>  
Date: Thu, 29 Jun 2000 06:54:04 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93837-2000.06.29-06.50.32--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

How 'bout this...

The best solution for airborne trackers is to move them off of the regular 144.39 frequency, maybe UHF. Then, do a crossband digi somewhere on the ground that will pick them up and feed them into the net.

Windtrax did this for their balloon launches. They used 446.0 and it seemed to work great.

At 03:12 PM 6/28/00 , you wrote:

>Trackers with RECEIVERS will not work in Airplanes usually because they  
>will hear 100% channel busy. Thus they will never transmit.



>144.39 frequency, maybe UHF. Then, do a crossband digi somewhere on the  
>ground that will pick them up and feed them into the net.  
>  
>Windtrax did this for their balloon launches. They used 446.0 and it  
>seemed to work great.

Byron Smith  
wa6ylb@theworks.com  
wa6ylb@wa6ylb.#nca.ca.usa.noam  
ICQ 26114994

<http://www.theworks.com/~wa6ylb>

If quitters never win, and winners never quit, what fool came up with,  
"Quit while you're ahead"?!

---

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---

## 1240. [aprssig] Re: N6TBQ-7 update

From: Bill Diaz <[billdiaz@megsinet.net](mailto:billdiaz@megsinet.net)>  
Date: Thu, 29 Jun 2000 10:02:45 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: "aprssig@tapr.org" <[aprssig@tapr.org](mailto:aprssig@tapr.org)>  
Message-ID: <LYR842-93875-2000.06.29-10.07.36--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I don't think it would be wise to use multiple wides from an aircraft.

Kurt wrote :

>We installed a tracking system on the plane consisting of a  
>KPC-3, 2m Ht (on 144.39Mhz) at 1 watt and a GPSII+. All 4  
>LTP's are being used on this trip.  
>WIDE,WIDE every 00:02:03  
>WIDE2-2 every 00:03:48  
>WIDE4-4 every 00:06:37  
>TRACE5-5 every 00:08:06

> Sorry if this is overkill however this may be a historic  
>trip and the local newspaper has a Link to  
><http://www.findu.com/cgi-bin/find.cgi?n6tbq-7>  
>My brothers call is being used for this trip as this is a  
>joint venture. If you have any questions about this Record  
>breaking attempt, contact me via Email and I will try to  
>answer them.

This does appear to be overkill, and may well be counter productive. When  
aloft, the aircraft will normally see multiple wides, and in most areas at  
least 1 IGATE. How many or its own digipeated packets will the aircraft hear  
when using the indicated paths?

If the intent is to track the flight across the country by displaying the  
current location via FindU.com, IMO it should not be necessary to digipeat over  
excessive wide paths at relatively short intervals.

Bill KC9XG

On Thursday, June 29, 2000 9:06 AM, Byron Smith [SMTP:wa6ylb@theworks.com]  
wrote:

> Although your idea has merit, it wont be of much help in this case, mostly  
> due to the amount of area (from coast to coast) that would need such cross  
> band connectivity.  
>  
> Its much different for a balloon, where you may have 50-150 miles max that  
> needs coverage.  
>  
> -----  
>  
> At 06:54 AM 06/29/2000 -0500, you wrote:  
> >How 'bout this...  
> >  
> >The best solution for airborne trackers is to move them off of the regular  
> >144.39 frequency, maybe UHF. Then, do a crossband digi somewhere on the  
> >ground that will pick them up and feed them into the net.  
> >  
> >Windtrax did this for their balloon launches. They used 446.0 and it

```

> >seemed to work great.
>
>
> Byron Smith
> wa6ylb@theworks.com
> wa6ylb@wa6ylb.#nca.ca.usa.noam
> ICQ 26114994
>
> http://www.theworks.com/~wa6ylb
>
> If quitters never win, and winners never quit, what fool came up with,
> "Quit while you're ahead"?!
>
>
> ---
> You are currently subscribed to aprssig as: BILLDIAZ@MEGSINET.NET
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

```

---

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To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org

## 1241. [aprssig] Airborne trackers

```

From: "Tom Clarke" <fclarke@erols.com>
Date: Thu, 29 Jun 2000 12:44:46 -0400
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-93887-2000.06.29-11.48.54--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

Boy, is that the truth! I carried my D7/Tripmate tracker in the cockpit of a C-130 to Thule Greenland and back last Friday/Sat and the poor thing couldn't get a packet in edgewise!

I managed to get a few packets into the network and did show up in the Montreal area, but it seems that the green light was on most of the time! Boy does the list fill up fast, too!

An interesting bit of trivia was discovered too. It seems the electrically heated (NESA) windshields do a great job in attenuating the GPS signals. I found that I had to stick the antenna (puck) next to one of the unheated panes to get reliable operation. Might be interesting to see if having the heat turned off makes any difference. These panes do not have wire grids in them, but use an electroconductive layer to produce the heat for flexibility and antifogging/deicing. The D7 ducky antenna was also against one of the unheated windows.

Another lesson learned is to make sure the backup battery is charged!! nuf said!

73 de Tom/W4QKW-7  
KC-130T/WB763

```

Subject: Re: N6TBQ-7 update
From: Bob Bruninga <bruninga@nadm.navy.mil>
Date: Wed, 28 Jun 2000 16:12:21 -0400 (EDT)
X-Message-Number: 16

```

Trackers with RECEIVERS will not work in Airplanes usually because they will hear 100% channel busy. Thus they will never transmit.

If it is a KPC3, be sure that CD is set to SOFTWARE. Then it will at least not just detect energy, but only good packets. Then it should find time to transmit when collisions wipe out the data...

de WB4APR, Bob

On Wed, 28 Jun 2000, Kurt O.  
Jauss wrote:

```

> The plane was delayed by fog and a vacuum pump for the
> gyro. It left the ground at 9:30 PDT. I am still trying to get
> the tracker up and running. It worked in front of his house
> and in front of my brothers work, however it doesn't seem to
> work in the plane. I am hoping it is a power problem i.e.
> Cigarette lighter fuse blown. I have been in contact with
> Wayne's wife and she, in contact with him. He will check the
> power problem and will try to raise the tracker box higher in
> the cockpit to clear the side of the plane at the next fuel
> stop. We're still trying to solve these problems. This will

```

> teach me to open my mouth until it's in the air next time. <g>  
>  
> --

---

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## 1242. [aprssig] Re: Airborne trackers

From: Bob Bruninga <bruninga@nadn.navy.mil>  
Date: Thu, 29 Jun 2000 14:11:36 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93892-2000.06.29-13.15.42--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Thu, 29 Jun 2000, Tom Clarke wrote:

> Boy, is that the truth! I carried my D7/Tripmate tracker in the cockpit of  
> a C-130 to Thule Greenland and back last Friday/Sat and the poor thing  
> couldn't get a packet in edgewise!

THats another advantage of the THD7(G) which now has DCD ignore menu item.  
WHich was put there for Satellite operations FULL DUPLEX, but it will also  
work in this case of a 100% busy channel..

de WB4APR, Bob

---

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---

## 1243. [aprssig] Re: Airborne trackers

From: "Sadowski, Allan" <allan.sadowski@ncshp.org>  
Date: Thu, 29 Jun 2000 14:29:06 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "'aprssig@tapr.org'" <aprssig@tapr.org>  
Message-ID: <LYR842-93896-2000.06.29-13.28.17--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I guess I must not understand something here... is there that much VHF  
traffic  
north of the St Lawrence River - to Thule (well up the western shore of  
Greenland)  
that the channel is full time busy... I don't think so....

I'm more inclined to read the original msg to be that the Tripmate couldn't  
get  
a GPS lock due to antenna placement and EMI in the aircraft... I'm of the  
opinion (maybe misguided) that a Tripmate was NOT designed with the RF  
environment of a 40 YO military aircraft EM compatability in mind... having  
been there... I know just how awful an EMI situation most aircraft are..  
especially  
the older aircraft...

Maybe I misunderstood you Bob... does the THD7 understand noise as data  
that easily?

Rereading what I just typed.... maybe the problem is the THD7... and it  
being  
overwhelmed with the RF noise on that great old bird...

Maybe I'm just showing my ignorance... or maybe it's that frequent bug here  
on  
the SIG where what folks submit is so easily interpreted in many unforeseen  
ways..

ALOHA  
AH6LS

> -----Original Message-----  
> From: Bob Bruninga [SMTP:bruninga@nadn.navy.mil]  
> Sent: Thursday, June 29, 2000 2:12 PM  
> To: TAPR APRS Special Interest Group  
> Cc: TAPR APRS Special Interest Group

> Subject: [aprssig] Re: Airborne trackers  
>  
> On Thu, 29 Jun 2000, Tom Clarke wrote:  
>  
> > Boy, is that the truth! I carried my D7/Tripmate tracker in the cockpit  
> of  
> > a C-130 to Thule Greenland and back last Friday/Sat and the poor thing  
> > couldn't get a packet in edgewise!  
>  
> THats another advantage of the THD7(G) which now has DCD ignore menu item.  
> WHich was put there for Satellite operations FULL DUPLEX, but it will also  
> work in this case of a 100% busy channel..  
>  
> de WB4APR, Bob  
>  
>  
>  
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---

## 1244. [aprssig] Re: Airborne trackers

From: "Brian B. Riley" <brianbr@macconnect.com>  
Date: Thu, 29 Jun 2000 15:12:39 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93911-2000.06.29-14.14.22--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

----- Original Message -----  
From: "Sadowski, Allan" <allan.sadowski@ncshp.org>  
Sent: Thursday, June 29, 2000 2:29 PM

> I guess I must not understand something here... is there that much  
> VHF traffic north of the St Lawrence River - to Thule (well up  
> the western shore of Greenland) that the channel is full time busy  
> ... I don't think so....

Then you are thinking wrong ... I am sitting here at 1600 feet amsl  
to the South and West of the area of which you speak and I can see a  
lot of 24/7 activity on 144.39. An airplane at a several thousand feet  
of altitude is going to copy an awful lot from this region as well as  
the Boston area. Now All the way to Thule I agree probably not, but a  
good chunk of the route he will.

--  
Brian B. Riley, N1BQ (ex-KA2BQE)  
<<http://www.wulfdcn.org>>

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## 1245. [aprssig] Re: Airborne trackers

From: "Michael Jones" <mjones@hughes.net>  
Date: Thu, 29 Jun 2000 12:30:46 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93915-2000.06.29-14.32.02--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I'll throw in my two cents about radio use in an airplane. Its truly amazing  
how far it is possible to employ radio while airborne. I used to travel alot  
for work and I always had a letter ready to ask the pilot for permission to  
operate an FM dualband HT while airborne.

On two occasions with US Airways I was actually given permission. In one of  
those instances I was able to easily carry on a simplex QSO at 30+ thousand  
feet from the AZ side of the AZ-CA border all the way to Lancaster in the  
Mojave Desert (about 45 miles NNE of Los Angeles) I was running 5 watts to  
rubber duck held close to the window.

146.52 can often seem crowded from such a hight; I can only imagine what  
144.39 is like.

Mike  
KF6SWI

----- Original Message -----

From: "Brian B. Riley" <brianbr@macconnect.com>

Sent: Thursday, June 29, 2000 12:12 PM

> ----- Original Message -----

> From: "Sadowski, Allan" <allan.sadowski@ncshp.org>

> Sent: Thursday, June 29, 2000 2:29 PM

>

>

> > I guess I must not understand something here... is there that much

> > VHF traffic north of the St Lawrence River - to Thule (well up

> > the western shore of Greenland) that the channel is full time busy

> > ... I don't think so....

>

> Then you are thinking wrong ... I am sitting here at 1600 feet amsl

> to the South and West of the area of which you speak and I can see a

> lot of 24/7 activity on 144.39. An airplane at a several thousand feet

> of altitude is going to copy an awful lot from this region as well as

> the Boston area. Now All the way to Thule I agree probably not, but a

> good chunk of the route he will.

> --

> Brian B. Riley, N1BQ (ex-KA2BQE)

> <<http://www.wulfden.org>>

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## 1246. [aprssig] Re: Airborne trackers

From: "Sadowski, Allan" <allan.sadowski@ncshp.org>

Date: Thu, 29 Jun 2000 15:59:27 -0400

To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>

Message-ID: <LYR842-93920-2000.06.29-14.58.40--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

Like I said in the original posting... NORTH OF THE ST LAWRENCE RIVER -

to THULE GREENLAND (WELL UP THE WESTERN SHORE OF GREENLAND)...

last time I looked USA 1 land was a few thousand kilometers from that

region...

I'm sure you're getting lots of packets... but you are a long distance from

THULE

if I can believe what WinAPRS tells me....

> -----Original Message-----

> From: Brian B. Riley [SMTP:brianbr@macconnect.com]

> Sent: Thursday, June 29, 2000 3:13 PM

> To: Sadowski, Allan; TAPR APRS Special Interest Group

> Subject: Re: [aprssig] Re: Airborne trackers

>

>

>

>

>

> ----- Original Message -----

> From: "Sadowski, Allan" <allan.sadowski@ncshp.org>

> Sent: Thursday, June 29, 2000 2:29 PM

>

>

> > I guess I must not understand something here... is there that much

> > VHF traffic north of the St Lawrence River - to Thule (well up

> > the western shore of Greenland) that the channel is full time busy

> > ... I don't think so....

>

> Then you are thinking wrong ... I am sitting here at 1600 feet amsl

> to the South and West of the area of which you speak and I can see a

> lot of 24/7 activity on 144.39. An airplane at a several thousand feet

> of altitude is going to copy an awful lot from this region as well as

> the Boston area. Now All the way to Thule I agree probably not, but a

> good chunk of the route he will.

> --

> Brian B. Riley, N1BQ (ex-KA2BQE)

> <<http://www.wulfden.org>>



>  
>

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## 1247. [aprssig] Re: Airborne trackers

From: Earl Needham <kd5xb@amsat.org>  
Date: Thu, 29 Jun 2000 13:58:14 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93922-2000.06.29-15.04.17--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 02:29 PM 6/29/00 -0400, Sadowski, Allan wrote:

><snip>

>I'm more inclined to read the original msg to be that the Tripmate  
>couldn't get a GPS lock due to antenna placement and EMI in the  
>aircraft... I'm of the opinion (maybe misguided) that a Tripmate was NOT  
>designed with the RF environment of a 40 YO military aircraft EM  
>compatibility in mind... having been there... I know just how awful an EMI  
>situation most aircraft are.. especially the older aircraft...

Only thing is -- the KC-130T is NOT 40 years old. The FIRST one  
was delivered in October 1983, a little less than 17 years ago.

7 3  
Earl

---

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---

## 1248. [aprssig] Re: Airborne trackers

From: "Sadowski, Allan" <allan.sadowski@ncshp.org>  
Date: Thu, 29 Jun 2000 16:12:32 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93923-2000.06.29-15.11.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Didn't see the specific model..... the first C-130's flew about 45  
years ago.... and  
there wasn't much design change for the first ten years.... the new J  
model is very  
up to date... but until the SLEP stuff gets done... lots of 'em are a long way  
from glass  
cockpits and such...

> -----Original Message-----

> From: Earl Needham [SMTP:kd5xb@amsat.org]  
> Sent: Thursday, June 29, 2000 3:58 PM  
> To: TAPR APRS Special Interest Group  
> Subject: [aprssig] Re: Airborne trackers

>

> At 02:29 PM 6/29/00 -0400, Sadowski, Allan wrote:

> ><snip>

> >I'm more inclined to read the original msg to be that the Tripmate  
> >couldn't get a GPS lock due to antenna placement and EMI in the  
> >aircraft... I'm of the opinion (maybe misguided) that a Tripmate was NOT  
> >designed with the RF environment of a 40 YO military aircraft EM  
> >compatibility in mind... having been there... I know just how awful an  
> EMI  
> >situation most aircraft are.. especially the older aircraft...

>

> Only thing is -- the KC-130T is NOT 40 years old. The FIRST one  
> was delivered in October 1983, a little less than 17 years ago.

>

> 7 3  
> Earl

>

>

>

>

> ---

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### 1249. [aprssig] Apology

From: "Sadowski, Allan" <[allan.sadowski@ncshp.org](mailto:allan.sadowski@ncshp.org)>  
Date: Thu, 29 Jun 2000 16:14:19 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-93924-2000.06.29-15.13.46--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Sorry for the wasted BW... anyone wanna beat this dead horse (c-130's and APRS near THule Greenland) some more.. lets take it elsewhere and not on the SIG... my apologies to everyone...

---

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### 1250. [aprssig] Re: Airborne trackers

From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
Date: Thu, 29 Jun 2000 16:39:07 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>, "[aprssig@tapr.org](mailto:aprssig@tapr.org)" <[aprssig@tapr.org](mailto:aprssig@tapr.org)>  
Message-ID: <LYR842-93933-2000.06.29-15.43.18--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Thu, 29 Jun 2000, Sadowski, Allan wrote:

> Maybe I misunderstood you Bob... does the THD7 understand noise as data  
> that easily?

The THD7 uses a "carrier sense" circuit so that the TNC will not transmit on a "busy" channel. If noise is holding the squelch open, then it will not transmit is my understanding...

bob

---

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### 1251. [aprssig] Re: Airborne trackers

From: John <[johnk.mchugh@worldnet.att.net](mailto:johnk.mchugh@worldnet.att.net)>  
Date: Thu, 29 Jun 2000 16:55:44 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-93938-2000.06.29-15.56.15--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Well while we're on the subject let me ask this. If one were to want to track an aircraft, say over the Caribbean and offshore coastal US areas (hurricane territory) what is the best way to do it, on VHF or HF.

I'm trying to get NOAA put APRS on the Hurricane Hunter planes (P3's) and need suggestions as to the best method and/or equipment. All thoughts are welcome.

John

--

John Mc Hugh, KU4GY  
Coordinator for Amateur Radio  
National Hurricane Center, W4EHW  
Miami, Florida  
Home Page: <http://www.fiu.edu/orgs/w4ehw/>

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### 1252. [aprssig] Re: Airborne trackers

From: "Brian B. Riley" <[brianbr@macconnect.com](mailto:brianbr@macconnect.com)>  
Date: Thu, 29 Jun 2000 17:14:04 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-93945-2000.06.29-16.18.13--lyris.aprssig#tapr.org@lists.tapr.org>

----- Original Message -----  
From: "Sadowski, Allan" <allan.sadowski@ncshp.org>  
Sent: Thursday, June 29, 2000 3:59 PM

```
> Like I said in the original posting... NORTH OF THE ST LAWRENCE
> RIVER - to THULE GREENLAND (WELL UP THE WESTERN SHORE
> OF GREENLAND) ... last time I looked USA 1 land was a few thousand
> kilometers from that region ... I'm sure you're getting lots of
> packets
> ... but you are a long distance from THULE if I can believe what
> WinAPRS tells me....
```

OK, in one or two syllable words so I can be understood ... I am 130 Km South of Montreal. Now if I can copy APRS traffic here 24/7, often very heavy, at a mere 500 meters amsl, I am saying that an aircraft operating at several thousand meters altitude is going to be hear that very same stuff from Montreal on up to Quebec City and beyond for a 1000 kilometers beyond Quebec City at the very least. Its is not a difficult concept!

--  
Brian B. Riley, N1BQ (ex-KA2BQE)  
<<http://www.wulfden.org>>

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### 1253. [aprssig] APRSDos ??

From: "Richard Amirault" <ramirault@erols.com>  
Date: Thu, 29 Jun 2000 18:00:46 -0400  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-93951-2000.06.29-17.05.25--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hey! I've been here for a few years now ... this must be the *\*longest\** that Bob has gone without an update??? Or am I just imagining this?

Could it be that APRSDos is "perfect"? Or, maybe Bob is just too busy to do much with it? Or, are the other versions edging the Dos version out? Or ..... ?

Richard Amiraault N1JDU Boston, MA, USA  
ramiraault@erols.com "Go Fly A Kite"  
[http:// www.erols.com/ramiraault](http://www.erols.com/ramiraault)

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### 1254. [aprssig] Re: MIC-E Protocol/AEA TNC Interaction

From: K3for@aol.com  
Date: Thu, 29 Jun 2000 18:13:10 EDT  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: BowHunter@mail.com  
Message-ID: <LYR842-93956-2000.06.29-17.17.41--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

```
>>This is the fix I've been using for Xastir on Linux.  It filters out only
the 0x00 bytes, which is ok in this instance:
```

mfilter 0

Another command that "may" be useful is:

```
afilter 0
```

&lt;&lt;

My internal PK-88 TNC only allows for a filter ON or OFF. I too am suffering from APRSDos (v8.4.2) Mic-E positions that get mispositioned from 07x W longitude out into the Atlantic at 04x W longitude. Any other ideas?  
Skip/K3FOR

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## 1255. [aprssig] Re: MIC-E Protocol/AEA TNC Interaction

From: "Curt Mills, WE7U" <hacker@tc.fluke.com>  
Date: Thu, 29 Jun 2000 15:32:49 -0700 (PDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: aprssig@lists.tapr.org, "Curt Mills, WE7U" <BowHunter@mail.com>, Curt Mills <hacker@tc.fluke.com>  
Message-ID: <LYR842-93961-2000.06.29-17.36.52--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Thu, 29 Jun 2000 K3for@aol.com wrote:

```
> >>This is the fix I've been using for Xastir on Linux. It filters out only
> the 0x00 bytes, which is ok in this instance:
> mfilter 0
> Another command that "may" be useful is:
> afilter 0
> <<
> My internal PK-88 TNC only allows for afilter ON or OFF. I too am suffering
> from APRSdos (v8.4.2) Mic-E positions that get mispositioned from 07x W
> longitude out into the Atlantic at 04x W longitude. Any other ideas?
> Skip/K3FOR
```

Internal? Haven't heard of that, but I didn't keep a close watch on their product line either.

Setting "afilter" off probably won't fix it, as I think it is for connected-mode only. I don't have my manual here at work or I'd check.

If you have an "mfilter" command, set it to 0 or off. That is the filter for monitored packets. On my PK-88 I didn't have an "off" setting for mfilter, so I had to set it to filter SOMETHING. I chose "0".

About the only other thing I could suggest is to go through every command in the manual to see what they might or might not filter. What you really want is to have no filtering of any kind.

Another option, if APRSdos has it, is to set your TNC to KISS mode and enable KISS mode in the APRS software. That should eliminate any filtering AND give you a checksum between the TNC and the computer. APRS+SA can do that, but I don't know about APRSdos.

Curt Mills, WE7U hacker.NO\_\*SPAM@tc.fluke.com  
Senior Methods Engineer/SysAdmin  
"Lotto: A tax on people who are bad at math." -- unknown  
"Windows: Microsoft's tax on computer illiterates." -- WE7U

---

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## 1256. [aprssig] Re: Airborne trackers

From: Dave Kaplan <dkaplan@steffeninc.com>  
Date: Thu, 29 Jun 2000 17:48:17 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-93963-2000.06.29-17.52.34--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I routinely fly over Chicago at FL290 (29,000 ft) and have no problem with my D7 being able to get a signal out. I find the secret is to use the D7 antenna. I had an external antenna installed on the aircraft and find I never use it because it hears and speaks too well.

Dave  
WB0WXX-7  
Commander Airmobile

At 02:12 PM 6/29/00, you wrote:

```
>----- Original Message -----
>From: "Sadowski, Allan" <allan.sadowski@ncshp.org>
>Sent: Thursday, June 29, 2000 2:29 PM
>
>
> > I guess I must not understand something here... is there that much
```

> > VHF traffic north of the St Lawrence River - to Thule (well up  
> > the western shore of Greenland) that the channel is full time busy  
> > ... I don't think so....  
>  
> Then you are thinking wrong ... I am sitting here at 1600 feet amsl  
> to the South and West of the area of which you speak and I can see a  
> lot of 24/7 activity on 144.39. An airplane at a several thousand feet  
> of altitude is going to copy an awful lot from this region as well as  
> the Boston area. Now All the way to Thule I agree probably not, but a  
> good chunk of the route he will.  
>--  
> Brian B. Riley, N1BQ (ex-KA2BQE)  
> <<http://www.wulfden.org>>  
>  
>  
>  
>  
>--  
> You are currently subscribed to aprssig as: dkaplan@steffeninc.com  
> To unsubscribe send a blank email to leave-aprssi-842K@lists.tapr.org

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## 1257. [aprssi] Re: Airborne trackers

From: "pmarkham" <pmarkham@newsguy.com>  
Date: Thu, 29 Jun 2000 20:29:26 -0400  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-93983-2000.06.29-19.34.09--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

By what propagation phenomenon is it gonna happen? Two syllable words do not make your statement more than wishful thinking. At 100, 000 feet altitude it still will not happen. What am I missing? Is several thousand meters higher? Does a C-130 cruise at higher than 100,000 ft?

Densely yours,

Peter/wa4hei

On 29 Jun 2000, at 17:14, Brian B. Riley wrote:

> I am saying that an aircraft  
> operating at several thousand meters altitude is going to be hear that  
> very same stuff from Montreal on up to Quebec City and beyond for a  
> 1000 kilometers beyond Quebec City at the very least. Its is not a  
> difficult concept!

> Brian B. Riley, N1BQ (ex-KA2BQE)  
> <<http://www.wulfden.org>>

Eschew obfuscation.

---  
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---

## 1258. [aprssi] Re: Airborne trackers

From: "pmarkham" <pmarkham@newsguy.com>  
Date: Thu, 29 Jun 2000 21:27:10 -0400  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-93999-2000.06.29-20.31.42--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 29 Jun 2000, at 20:29, pmarkham wrote:

> By what propagation phenomenon is it gonna happen?

> Peter/wa4hei  
>

To answer my own rhetorical question, "It aint."

The formulas below do not consider metric conversion magic. The physics for old fashioned units do not support typical vhf/uhf propagation much past 475 miles from an altitude of 100,000 feet.

I regret the use of the occasional word over two syllables.

Pete/wa4hei

Definition: radio horizon range (RHR)

radio horizon range (RHR): The distance at which a direct radio wave can reach a receiving antenna of given height from a transmitting antenna of given height. Note: The radio horizon range in nautical miles,  $R$ , is given by the relation  $R = 1.23(h_t^{1/2} + h_r^{1/2})$ , where  $h_t$  and  $h_r$  are the heights of the transmitting and receiving antennas in feet and  $1/2$  = square root. The radio horizon range,  $R$ , in nautical miles is also given by the relation  $R = 2.23(h_t^{1/2} + h_r^{1/2})$ , where  $h_t$  and  $h_r$  are the heights of the transmitting and receiving antennas in meters. The effective Earth radius,  $4/3$  times the actual Earth radius, is used in deriving the formulae. Second-order differentials are neglected. They are of the order of 0.1%. [From Weik '89]

Mo' betta rule o' t'um' fo' us simple folk:

Working range between antennas in statute miles, based on a  $4/3$  Earth effective radius:  $D = \text{the square root of } 2H$ , where  $H$  = the combined antenna heights, in feet, above some common reference on a featureless Earth.

The  $4/3$  Earth figure takes into account the general refractive properties of the atmosphere that "bends" rf over the horizon.

For those among you that wish to invest a piece of your life in obtaining a good appreciate of what vhf and higher is capable of, without magic in a real world, you might give the program below a whirl. It is a master piece.

Radio Mobile Deluxe 3.1. Freeware by VE2DBE

<http://www.cplus.org/rmw/english1.html>

As always, YMMV.

Pete/wa4hei

Eschew obfuscation.

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## 1259. [aprssig] Radio horizon range, not airborne tracker

From: "pmarkham" <[pmarkham@newsguy.com](mailto:pmarkham@newsguy.com)>  
Date: Thu, 29 Jun 2000 21:36:18 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-94002-2000.06.29-20.40.28--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

My last post has to do with determining radio horizon range, a concept completely unknown in more than one airborne tracker post. I hope at least one person reads it... ;-)

Pete/wa4hei

Eschew obfuscation.

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## 1260. [aprssig] Alternate Access to second.aprs.net

From: Greg Noneman <[greg@clubnet.net](mailto:greg@clubnet.net)>  
Date: Thu, 29 Jun 2000 18:47:10 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-94005-2000.06.29-20.51.26--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

As far as I can tell, [www.aprs.net](http://www.aprs.net) and all sites using the aprs.net domain are currently unavailable (as least in this part of the universe).

As always, the secondary APRServe server (second.aprs.net) can be accessed using the local domain name of [aprs.socal.interworld.net](http://aprs.socal.interworld.net). Ports 23 (unbuffered) and 10151 (12 hours of buffered data) are available. Note that this domain name changed two weeks ago when the server was moved, so update your files as necessary.

Greg  
WB6ZSU

---  
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---

### 1261. [aprssig] FINDU down?

From: "Alex Pinheiro Machado Rodrigues" <alexmac@tba.com.br>  
Date: Thu, 29 Jun 2000 22:55:25 -0300  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-94006-2000.06.29-21.04.13--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi Sig. I'm trying to open www.findu.com but I can't.  
Down?  
Thanks!

Alex, PT2VHF  
BRAZIL

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---

### 1262. [aprssig] Re: Another Resource

From: James Smith <k9apr@tawg.org>  
Date: Thu, 29 Jun 2000 21:11:02 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: Tri-State APRS Working Group <tawg-list@tawg.org>  
Message-ID: <LYR842-94010-2000.06.29-21.18.08--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Well if anyone is interested QRZ.com has started it's own APRS Resource page located at <http://qrz.com/features/APRS/index.htm> if you have a few minute check it out.

73, James, K9APR  
Tri-State APRS Working Group / Chairman  
<http://www.tawg.org>

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---

### 1263. [aprssig] Re: Airborne trackers

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Thu, 29 Jun 2000 20:11:57 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-94013-2000.06.29-21.24.54--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 04:12 PM 6/29/00 -0400, Sadowski, Allan blasted the following out into the ether:

>Didn't see the specific model.....

It was given in the sig block as KC-130T.

> the first C-130's flew about 45 years ago.... and there wasn't much  
> design change for the first ten years.... the new J  
>model is very up to date... but until the SLEP stuff gets done... lots  
>of'm are a long way from glass cockpits and such...

The first T was delivered in 1983, and they have been delivered at least as late as 1991.

7 3  
Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)  
PGP Key ID 0xC3FDA66E

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

---

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---

## 1264. [aprssig] Re: earthmate modification

From: "Kriss Alan Kliegle" <kliegle@nh.ultranet.com>  
Date: Thu, 29 Jun 2000 21:38:53  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-94014-2000.06.29-21.42.51--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The Rockwell Jupiter GPS RXR can be put into a NEMA 183 output permantly, although mine came from a company in Nutls & Volts Magazine. Timeline Inc sells them for only \$69.00 This is a GPS engine only! No display, antenna, or connectors for that matter. See digikey fro that stuff. Check out Timeline Inc's website for more info at <http://www.digisys.net/timeline>

The output is TTL not RS-232, so another few dollars on a MAX232 chip and a few 1uf capacitors will get you a low cost GPS RX for your tracker.

The max232 chip is also available at Digikey.

Download the technical data for the Jupiter GPS as previously mentioned elsewhere, and you will see the 20 pin 2mm x 2mm connector. By grounding one of the pins, the unit will spit out NEMA-183 instead of binary. Converting to RS-232 has to be done externally. Whadda you want for \$69! 73 de Kriss  
KA1GJU

---

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---

## 1265. [aprssig] Re: Airborne trackers

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Thu, 29 Jun 2000 20:56:24 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-94015-2000.06.29-22.02.19--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 08:29 PM 6/29/00 -0400, pmarkham blasted the following out into the ether:  
>By what propagation phenomenon is it gonna happen? Two syllable words do not  
>make your statement more than wishful thinking. At 100, 000 feet altitude it  
>still will not happen. What am I missing? Is several thousand meters higher?  
>Does a C-130 cruise at higher than 100,000 ft?  
>  
>Densely yours,  
> Peter/wa4hei

Pete's right. A C-130 flies, at it's highest, somewhere around 30,000 to 35,000 feet. That's 10,670 meters or less if I've done my math correctly. You will NOT have line-of-site from any part of North America to Greenland at that altitude.

You might get some propagation going from tropo, though...

7 3  
Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)  
PGP Key ID 0xC3FDA66E

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

---

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## 1266. [aprssig] Re: earthmate modification

From: Steve Bragg <steveb@c2-tech.com>  
Date: Thu, 29 Jun 2000 22:23:37 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-94019-2000.06.29-22.24.47--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Kriss Alan Kliegle wrote:

```
> The Rockwell Jupiter GPS RXR can be put into a NEMA 183 output permantly,
<snip>
> By grounding
> one of the pins, the unit will spit out NEMA-183 instead of binary.
> Converting to RS-232 has to be done externally. Whadda you want for $69!
```

More than we get, apparently. This may be true of the Rockwell Jupiter-chipset GPS's in general, but it is NOT true of the Earthmate. I was told personally by a Delorme rep that the firmware was custom, and NMEA output is not possible. It does not respond to the output format command. (I know, I've tried.) I have tried to collect all the info that I could on the Earthmate and post it on my website:

<http://www.c2-tech.com/~steveb/ka9mva/earthmate.htm>

I still say this was the best answer to the original query in this thread:

[http://www.tapr.org/cgi-bin/wilma\\_hiliter/aprssig/0006/msg01134.html](http://www.tapr.org/cgi-bin/wilma_hiliter/aprssig/0006/msg01134.html)

73,

Steve KA9MVA

---

```
  /_/_/_/_/_/ | /_/_/_/_/_/ | /_/_/_/_/_/ |
 /_/_/_/_/_/ | /_/_/_/_/_/ | /_/_/_/_/_/ |
 /_/_/_/_/_/ | /_/_/_/_/_/ | /_/_/_/_/_/ |
 /_/_/_/_/_/ | /_/_/_/_/_/ | /_/_/_/_/_/ |
```

=====

Steve Bragg KA9MVA ka9mva@qsl.net ICQ:29816109  
HamHUD APRS Mobile Terminal: [www.qsl.net/ka9mva/hamhud](http://www.qsl.net/ka9mva/hamhud)  
Owasso, Oklahoma, USA  
Owasso Amateur Radio Club [www.qsl.net/oarc](http://www.qsl.net/oarc)  
FIND ME WITH APRS! <http://map.findu.com/ka9mva-9>

```
"#define QUESTION ((2b) || !(2b))"
- Shakespeare
```

---

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---

## 1267. [aprssig] Re: Airborne trackers

From: "pmarkham" <pmarkham@newsguy.com>  
Date: Thu, 29 Jun 2000 23:31:04 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-94023-2000.06.29-22.35.41--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I 'spect the North Atlantic is a poor bet. If you are interested in tropo, you may find this url interesting, Earl.

<http://www.iprimus.ca/~hepburnw/tropo.html>

Pete/wa4hei

On 29 Jun 2000, at 20:56, Earl Needham wrote:

```
>
>     You might get some propagation going from tropo, though...
>
>     7 3
>     Earl
>
```

Eschew obfuscation.

---

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## 1268. [aprssig] Re: Airborne trackers

From: Claude Head <k5dtn@swbell.net>  
Date: Thu, 29 Jun 2000 23:05:09 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-94027-2000.06.29-23.09.24--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I once held a simplex QSO from the ground at Texas Instruments in Dallas TX with a private plane flying at 30,000 feet over Oklahoma City, OK. That is a little over 200 miles. I was running about 3 watts from an old Kenwood 2400 HT. A little power goes a loong way line of sight, if you can get it!

73, Claude  
K5DTN

Michael Jones wrote:

> I'll throw in my two cents about radio use in an airplane. Its truly amazing  
> how far it is possible to employ radio while airborne. I used to travel alot  
> for work and I always had a letter ready to ask the pilot for permission to  
> operate an FM dualband HT while airborne.  
>  
> On two occasions with US Airways I was actually given permission. In one of  
> those instances I was able to easily carry on a simplex QSO at 30+ thousand  
> feet from the AZ side of the AZ-CA border all the way to Lancaster in the  
> Mojave Desert (about 45 miles NNE of Los Angeles) I was running 5 watts to  
> rubber duck held close to the window.  
>  
> 146.52 can often seem crowded from such a hight; I can only imagine what  
> 144.39 is like.  
>  
> Mike  
> KF6SWI  
>  
> ----- Original Message -----  
> From: "Brian B. Riley" <brianbr@macconnect.com>  
> Sent: Thursday, June 29, 2000 12:12 PM  
> > ----- Original Message -----  
> > From: "Sadowski, Allan" <allan.sadowski@ncshp.org>  
> > Sent: Thursday, June 29, 2000 2:29 PM  
> >  
> >  
> > I guess I must not understand something here... is there that much  
> > VHF traffic north of the St Lawrence River - to Thule (well up  
> > the western shore of Greenland) that the channel is full time busy  
> > ... I don't think so....  
> >  
> > Then you are thinking wrong ... I am sitting here at 1600 feet amsl  
> > to the South and West of the area of which you speak and I can see a  
> > lot of 24/7 activity on 144.39. An airplane at a several thousand feet  
> > of altitude is going to copy an awful lot from this region as well as  
> > the Boston area. Now All the way to Thule I agree probably not, but a  
> > good chunk of the route he will.  
> > --  
> > Brian B. Riley, N1BQ (ex-KA2BQE)  
> > <<http://www.wulfdcn.org>>  
> >  
> > ---  
> > You are currently subscribed to aprssig as: k5dtn@swbell.net  
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## 1269. [aprssig] Unhandled Exceptions

From: Daniel Duffin <kb5il@usa.com>  
Date: Fri, 30 Jun 2000 01:23:54 -0400 (EDT)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-94047-2000.06.30-00.28.01--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I changed the backup APRServe to aprs.socal.interworld.net (port 10151) since www.aprs.net is evidently down and cannot last more than 2 minutes without getting an unhandled exception. Is anyone else experiencing this with this new URL?

Danny

---

FREE Personalized Email at Mail.com  
Sign up at <http://www.mail.com/?sr=signup>

---

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---

## 1270. [aprssig] Re: earthmate modification

From: Mark Fellhauer <[sparkfel@primenet.com](mailto:sparkfel@primenet.com)>  
Date: Fri, 30 Jun 2000 00:52:09 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-94050-2000.06.30-00.56.32--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-94050-2000.06.30-00.56.32--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

I hate to rain on a parade:

BUT, for \$63 (not including tax & shipping) I got a Rand McNally GPS engine from the RM website, complete with built-in patch antenna that requires no modifications to get to work with APRS or a computer. It outputs NMEA natively and at levels that either a computer or TNC can deal with. It works from a wide voltage range (at least 5 -12 VDC). No muss, no fuss. I can get one at the local Best Buy for \$100 including the RM mapping software. By the time someone buys his "low cost" Earthmate, Tripmate, or Brand X gps module and then adds the needed time, labor, hardware, etc. just to get it working, has it really saved any money? Or provided the user with a more stable and reliable GPS platform? I think not.

Sure, it's a lot of fun to breathe molten flux and burn your fingers soldering...but not if there's no net gain.

73,

Mark  
KC7BXS

At 04:38 PM 6/29/00, Kriss Alan Kliegle wrote:

>The Rockwell Jupiter GPS RXR can be put into a NEMA 183 output permantly,  
>although mine came from a company in Nutls & Volts Magazine. Timeline Inc  
>sells them for only \$69.00 This is a GPS engine only!

---

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---

## 1271. [aprssig] Re: earthmate modification

From: Timothy McGowen <[searchk9@home.com](mailto:searchk9@home.com)>  
Date: Thu, 29 Jun 2000 23:17:02 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-94054-2000.06.30-01.22.27--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-94054-2000.06.30-01.22.27--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

O.K. Mark, question.

I have been looking at those unit to hook up to my Kenwood TM-D700. Do you know how the two plugs are configured for the RM unit?

Could I make a plug converter to draw power from another source then input the data on a 3 pin 2.5mm plug? Does anyone know if I could tap into the existing 232 or DIN plug on the radio with this unit?

TIA

Timothy McGowen  
KE6BSV

Mark Fellhauer wrote:

>  
> I hate to rain on a parade:  
>  
> BUT, for \$63 (not including tax & shipping) I got a Rand McNally GPS engine  
> from the RM website, complete with built-in patch antenna that requires no  
> modifications to get to work with APRS or a computer. It outputs NMEA  
> natively and at levels that either a computer or TNC can deal with. It  
> works from a wide voltage range (at least 5 -12 VDC). No muss, no  
> fuss. I can get one at the local Best Buy for \$100 including the RM  
> mapping software. By the time someone buys his "low cost" Earthmate,  
> Tripmate, or Brand X gps module and then adds the needed time, labor,  
> hardware, etc. just to get it working, has it really saved any money? Or  
> provided the user with a more stable and reliable GPS platform? I think not.  
>  
> Sure, it's a lot of fun to breathe molten flux and burn your fingers  
> soldering...but not if there's no net gain.  
>  
> 73,  
>  
> Mark  
> KC7BXS  
>  
> At 04:38 PM 6/29/00, Kriss Alan Kliegle wrote:  
>  
> >The Rockwell Jupiter GPS RXR can be put into a NEMA 183 output permantly,  
> >although mine came from a company in Nutts & Volts Magazine. Timeline Inc  
> >sells them for only \$69.00 This is a GPS engine only!  
>  
> ---  
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---  
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---

## 1272. [aprssig] Re: earthmate vs Rand McNally

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Fri, 30 Jun 2000 02:33:47 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-94059-2000.06.30-02.38.15--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain  
  
At 01:17 AM 6/30/00, Timothy McGowen wrote:  
>O.K. Mark, question.  
>  
>I have been looking at those unit to hook up to my Kenwood TM-D700. Do  
>you know how the two plugs are configured for the RM unit?  
  
Not offhand, but the pinouts have been posted to the SIG about a dozen times.  
  
>Could I make a plug converter to draw power from another source then  
>input the data on a 3 pin 2.5mm plug? Does anyone know if I could tap  
>into the existing 232 or DIN plug on the radio with this unit?  
  
Yes, it's possible to wire up a converter for the PS/2 plug as well as the  
DB-9. Again, the pinouts have been posted here many times.

If you look back thru the archives you will find them.

Mark

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---

## 1273. [aprssig] Re: Unhandled Exceptions

From: Ian Wade <Ian.Wade@care4free.net>  
Date: Fri, 30 Jun 2000 09:02:45 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-94060-2000.06.30-03.06.56--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

In article <LYR14778-94047-2000.06.30-00.28.01--Ian.Wade#care4free.net@lists.tapr.org>, Daniel Duffin <kb5il@usa.com> writes  
>I changed the backup APRServe to aprs.socal.interworld.net (port 10151)  
>since www.aprs.net is evidently down and cannot last more than 2 minutes  
>without getting an unhandled exception. Is anyone else experiencing this  
>with this new URL?  
>

Hi Danny. I have just logged aprs.socal.interworld.net:10151 for about an hour (approx 1050-1150 PDT Thursday), a total of just under 7000 entries.

I can't find any obvious reason why your software should crash with data from this feed. Most of it looks pretty clean (much cleaner than it has been recently), so I suspect you need to go back to your software vendor.

Here is a sample of some of the bad packets. Some (particularly the ones apparently originating in Canada) seem to result from character corruption, but others result from broken software.

APRS SOFTWARE AUTHORS: please study these -- the last example is VERY interesting:

-----  
Record #36  
[invalid]>APA1PG,WIDE,PA2HBL-1,PD0JEY-2,PD0JEY-1\*,TRACE5-2:=5150.31N\00441.61E(pa1pg@amsat.org {UIV22})  
\*\*WARNING: Invalid callsign '[invalid]'.

-----  
Record #64  
VA3GGS-12>GPSLJ,VE3KSR-8,WIDE\*,WIDE:\$GPRMC,222542,A,4328.659,N,08030.512,W,000.0,196.9,290600,009.8,W\*76  
APRS Data Type= Raw GPS NMEA Data  
\*\*WARNING: NMEA checksum error. Data may not decode correctly.

-----  
Record #98  
V!3HOI>APR845,VE3MUS,VE3LSR,VE3YAP,VE3KSR,WIDE\*:>101244z HOME AAIN...n/....:-)  
\*\*WARNING: Invalid callsign 'V!3HOI'.

-----  
Record #117  
PG=QRT>APA1PG,WIDE\*,TRACE5-5:=5150.31N\00441.61E(pa1pg@amsat.org {UIV22})  
\*\*WARNING: Invalid callsign 'PG=QRT'.

-----  
Record #120  
VE4DS-9>APRS,WIDE,W7KPW-1\*:@300442z2944.93N/09803.51Wu161/000/E>dsy/M1/Enroute... ]"7))  
APRS Data Type= Posit w/ time. With APRS  
Day= 30 Time= 04 hours 42 mins UTC  
Lat= 29 deg 44.93 min N Long= 98 deg 03.51 min W  
\*\*QUESTION: Is this lat/long position reasonable?  
It seems a long way from home for this callsign.

-----  
Record #140  
f3HPY-2>APRS,W2HE-1,WX3P\*,TRACE:!4142.92NT0753 ,66W#P G4560/Elk Mtn., Susquehanna Co.  
\*\*WARNING: Invalid callsign 'f3HPY'.

-----  
Record #197  
K44WE>APW245,VE3WZL-4,WIDE\*:\_06292346c0v0sP00W000t073r0p0p6066h00b0\$=20wU2KM  
APRS Data Type= Positionless WX Station  
Date= 29 Jun Time= 23 hours 46 mins UTC  
Wind Direction= \*\*BAD COURSE Speed= \*\*BAD SPEED

-----  
Record #225  
AA2YS-7>APRS,RELAY,WIDE,WIDE:@300024z0000.00N/00000.04E>004/000/T>dsy/M2/In Service  
APRS Data Type= Posit w/ time. With APRS  
Day= 30 Time= 00 hours 24 mins UTC  
Lat= 0 deg 00.00 min N Long= 0 deg 00.04 min E  
\*\*QUESTION: Is this lat/long position reasonable?  
It seems a long way from home for this callsign.  
-----

```

Record #243
KQ4MS/-3>APRS,W4NHVp-9,N4VDE-3,WIDE,N4NEQ-2*:=3549.23NN`7818.47W#PHG6460/W-R-T-N Digi in
Zebulon, NC
**WARNING: Invalid callsign 'KQ4MS/'.

-----

Record #245
VJ4GN>APW247,VE3WZL,WIDE*:=5003.41N/09631.11W&PHG5160/Gle^n in Beauseiour,MB -247-<5'0>
**WARNING: Invalid callsign 'VJ4GN'.

-----

Record #249
}VA3DRV-9>APW247,TCPIP,VE2ETS*:@300050z4315.68N/07948.78Wu109/003/ -247-<530>
**WARNING: Invalid callsign 'VA3DRV'.
APRS Data Type= Posit w/ time. With APRS
Day= 30 Time= 00 hours 50 mins UTC
Lat= 43 deg 15.68 min N Long= 79 deg 48.78 min W
Icon= Truck 18wh Overlay= (none)
Course= 109 deg Speed= 003 knots (3.5 mph 5.6 kph 1.5 m/s)

-----

Record #264
KE4TNO-2>AP0922,AB4KN-2*,WIDE6-1:=*****/*****.APRS+SA
APRS Data Type= Posit w/o time. With APRS
Lat= 71 deg 59.86 min N Long= 143 deg 59.73 min W
**QUESTION: Is this lat/long position reasonable?
It seems a long way from home for this callsign.
GPS Fix= Old (last) NMEA Source= GLL Compression Origin= TNC Beacon Text
Course= 36 deg Speed= 1 knots (1.2 mph 1.9 kph 0.5 m/s)
Icon= **BAD SYMBOL TABLE IDENTIFIER/OVERLAY CHARACTER

-----

Record #279
KE3BSA>APRS,RELAY*,WIDE:@300106z3925.00N/17636.96W#000/000/E>dsy/M0/Off duty.. ]
APRS Data Type= Posit w/ time. With APRS
Day= 30 Time= 01 hours 06 mins UTC
Lat= 39 deg 25.00 min N Long= 176 deg 36.96 min W
**QUESTION: Is this lat/long position reasonable?
It seems a long way from home for this callsign.
Icon= Digi (white) Overlay= (none)
Course= (Indeterminate) deg Speed= 000 knots (0.0 mph 0.0 kph 0.0 m/s)

-----

Record #322
WW1R&>MAOL,KD4BM8-3,RELAY,N4NEQ-2*,WIDE:>:13539.00N/08112.60WBPH 145.010 MAIL FOR
**WARNING: Invalid callsign 'WW1R&'.
APRS Data Type= Status

-----

Record #371
K8XZ>APRS,RELAY,WIDE*/1:@300158z0000.00N/00000.80WJ319/041/E>dsy/M0/Off duty..
APRS Data Type= Posit w/ time. With APRS
Day= 30 Time= 01 hours 58 mins UTC
Lat= 0 deg 00.00 min N Long= 0 deg 00.80 min W
**QUESTION: Is this lat/long position reasonable?
It seems a long way from home for this callsign.

-----

Record #450
VA3tGS-12>GPSFJ,V%3YAP-8,WIDE*,TITe:$GPRMC,022748,A,4328.654,N,08030.512,W,000.0,!969,30h
0,009.8W*78
**WARNING: Invalid callsign 'VA3tGS'.
APRS Data Type= Raw GPS NMEA Data
**WARNING: NMEA checksum error. Data may not decode correctly.

-----

Record #454
VA3[KI>PW247,VE3RCY-8,VE3YAP-8,WIDE*:=4405.98N/07934.25W-PHG2230/Alex in Bradford / CANWARN
/ HOME BSE -ONSIMBRADFORD-247-<530>
**WARNING: Invalid callsign 'VA3[KI'.

-----

Record #1001
cmd:PCSAT>APRS:!3859.37N07629.94W#Naval Academy test
**WARNING: Invalid callsign 'cmd:PCSAT'.
**WARNING: No destination callsign.
APRS Data Type= Posit w/o time. No APRS
Lat= 38 deg 59.37 min N Long= **BAD LONG
Icon= Nav Buoy Overlay= **BAD OVERLAY CHAR '0' not allowed with this symbol

```

-----  
Record #1108  
E3IHI0-6>PW243p-6,E3W0Z0-6,E3MPC0-7,IDE0-7\*,IDE0-1:4520.80N/07544.86W- WinAPRS QRT @142007z  
\*\*WARNING: Invalid callsign 'PW243p'.  
-----

Record #1221  
cmd:AI3L-8>APRS,RELAY,WIDE,TRACE2-2:@300558z41028.00N/07623.18Ws171/000/E>dsy/M0/Off duty..  
]"3u}  
\*\*WARNING: Invalid callsign 'cmd:AI3L'.  
-----

Record #1246  
W9IF-2>APRS,K6TZ-10\*,WIDE2:Fixed Home Beacon! QTH Poway, CA - rparry@qualcomm.com  
APRS Data Type= Posit w/o time. No APRS  
Lat= 6 deg 04.47 min S Long= 9 deg 23.35 min E  
\*\*QUESTION: Is this lat/long position reasonable?  
It seems a long way from home for this callsign.  
GPS Fix= Current NMEA Source= Other Compression Origin= Software Compression  
Course= 44 deg Speed= 0 knots (0.0 mph 0.0 kph 0.0 m/s)  
Icon= \*\*BAD SYMBOL TABLE IDENTIFIER/OVERLAY CHARACTER  
-----

Software Authors: does your software correctly decode this last example?  
W9IF-2 probably meant this to be an ordinary non-APRS AX.25 beacon. Unfortunately,  
the "!" at char position 18 turns it into a posit ("!" can be shifted up  
to 40 chars down the line). The next 13 characters (" QTH Poway, ") are then  
interpreted as a compressed posit. Isn't this fun????

73  
Ian, G3NRW  
Technical Editor, APRS Protocol Specification

--  
+-----+  
| APRS on 144.800 [I09ISX] ~55km/35 miles NNW of London |  
| email: g3nrw@arrrl.net |  
| |  
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |  
| <APRSdec> APRS DECODER: http://www.netro.co.uk/aprs.htm |  
+-----+

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---

## 1274. [aprssig] Re: Unhandled Exceptions

From: Ian Wade <Ian.Wade@care4free.net>  
Date: Fri, 30 Jun 2000 09:13:04 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-94062-2000.06.30-03.17.09--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In article <LYR14778-94060-2000.06.30-03.06.56--Ian.Wade#care4free.net@lists.tapr.org>, Ian Wade <Ian.Wade@care4free.net> writes

>Hi Danny. I have just logged aprs.socal.interworld.net:10151 for about  
>an hour (approx 1050-1150 PDT Thursday), a total of just under 7000  
>entries.  
>

Correction: that should read 2250-2350 PDT Thursday. (I understand all  
this internet stuff, but subtracting 8 hours from the clock on the wall  
here is obviously beyond me ...)

73  
Ian, G3NRW  
Technical Editor, APRS Protocol Specification

--

```
+-----+
| APRS on 144.800 [I0915X] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| <APRSdec> APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

---

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## 1275. [aprssig] Re: Radio Horizon Range

From: "pmarkham" <pmarkham@newsguy.com>  
Date: Fri, 30 Jun 2000 07:18:31 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-94087-2000.06.30-06.24.37--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi, Claude.

Your post brings to mind another rule of thumb, that can be verified with the simple arithmetic/algebraic formulas I posted earlier.

All other things remaining the same, you must quadruple the effective antenna height to double the the radio horizon range. Knowing that, and keeping in mind the example range of ~450 statute miles for 100,000' in my example, I have no reason to doubt your story.

The rule of thumb formula predicting radio horizon range, and therefore, consistent vhf/uhf communications, is quite handy for guesstimating reliable communication range, with typical equipment, over an Earth with minor features.

I have a beam at 43 feet and have spoken in simplex mode with a friend, for years, with a low power ht and quarter wave vertical on the cab roof of his pick-up truck. On those day of little to no weather related propagation enhancement, the reliable communications range of approximately 12 miles is quite close to the rule of thumb prediction of 10 miles for a combined antenna height of 50'. FRS radio range of 2 hand helds in typical use is also mighty close as the antennas and power do not change the propagation physics.

The use of digipeaters/repeaters and the consequences of weather related enhancement have distorted most amateur radio enthusiasts perception of vhf radio horizon range.

Basic technical rules of thumb can be helpful in determining the "baloney factor" of almost any claim. It helps to keep an ever more technical world comprehensible to the layman.

APRS!... ;-)

As always, YMMV.

Pete/wa4hei

On 29 Jun 2000, at 23:05, Claude Head wrote:

>  
> I once held a simplex QSO from the ground at Texas Instruments  
> in Dallas TX with a private plane flying at 30,000 feet over  
> Oklahoma City, OK. That is a little over 200 miles.

Eschew obfuscation.

---

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## 1276. [aprssig] Re: Unhandled Exceptions

From: Roger Barker <roger@peaksys.co.uk>  
Date: Fri, 30 Jun 2000 13:11:11 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-94091-2000.06.30-07.15.27--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain



In article <LYR1643-94060-2000.06.30-03.06.56--ROGER#PEAKSYS.CO.UK@lists.tapr.org>, Ian Wade <Ian.Wade@care4free.net> writes  
[snip]  
>-----  
>Record #1246  
>W9IF-2>APRS,K6TZ-10\*,WIDE2:Fixed Home Beacon! QTH Poway, CA -  
>rparry@qualcomm.com  
> APRS Data Type= Posit w/o time. No APRS  
> Lat= 6 deg 04.47 min S Long= 9 deg 23.35 min E  
>\*\*QUESTION: Is this lat/long position reasonable?  
> It seems a long way from home for this callsign.  
> GPS Fix= Current NMEA Source= Other Compression Origin= Software  
>Compression  
> Course= 44 deg Speed= 0 knots (0.0 mph 0.0 kph 0.0 m/s)  
> Icon= \*\*BAD SYMBOL TABLE IDENTIFIER/OVERLAY CHARACTER  
>  
>-----  
>  
>Software Authors: does your software correctly decode this last example?  
>W9IF-2 probably meant this to be an ordinary non-APRS AX.25 beacon.  
>Unfortunately,  
>the "!" at char position 18 turns it into a posit ("!" can be shifted up  
>to 40 chars down the line). The next 13 characters (" QTH Poway, ") are then  
>interpreted as a compressed posit. Isn't this fun????

When validating that frame as a compressed posit, I reject it on the first character of the posit (a space)...

--  
Roger Barker, G4IDE - roger@peaksys.co.uk  
For UI-View go to - <http://www.packetradio.org.uk>  
For WinPack go to - <http://www.peaksys.co.uk>

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## 1277. [aprssig] WinaPRS in kiss mode

From: "nliic Jason Greene" <nliic@qsl.net>  
Date: Fri, 30 Jun 2000 09:13:20 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-94118-2000.06.30-08.18.01--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I wonder if anyone else is having this problem.  
I am using a kpc3 v5.1 and winaprs 246 on a unisys p166 w ith 64 meg of ram.  
I have the tnc in kiss mode, and I have set enable kiss on vhf. The digi seems to work, but I have reports that I am not seen on other screens. I can not send messges either.

I have a couple of other notes:

1. Winaprs does not send the correct command to enter kiss mode for the kpc3, even after selecting it in the tnc menu.
2. The digi does not seem to support widen-n

Can anyone help?

Jason nliic

---  
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## 1278. [aprssig] Re: WinaPRS in kiss mode

From: Mark Sproul <msproul@jove.rutgers.edu>  
Date: Fri, 30 Jun 2000 09:35:33 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-94121-2000.06.30-08.43.25--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 9:13 AM -0400 6/30/00, nliic Jason Greene wrote:

>I wonder if anyone else is having this problem.  
>I am using a kpc3 v5.1 and winaprs 246 on a unisys p166 w ith 64 meg of ram.  
>I have the tnc in kiss mode, and I have set enable kiss on vhf. The digi  
>seems to work, but I have reports that I am not seen on other screens. I can  
>not send messges either.  
>  
>I have a couple of other notes:

>1. Winaprs does not send the correct command to enter kiss mode for the  
>kpc3, even after selecting it in the tnc menu.  
>2. The digi does not seem to support widen-n  
>  
>Can anyone help?  
>  
>Jason nliic  
>

There is an entry in KISS settings to set the command string to enable KISS mode. If this does not work, try setting it to kiss mode manually then running WinAPRS.

Either way, let me know.

Mark  
kb2ici@amsat.org

---

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---

### 1279. [aprssig] TNC init.

From: Mike <worsr@home.com>  
Date: Fri, 30 Jun 2000 08:01:25 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-94123-2000.06.30-09.04.43--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I have an older PK 232MBX that I can't seem to get WinAPRS to initialize. The program will wk if I initialize with Packrat first. I've tried all the host mode ins and outs. Any other ideas?

Thanks

\_\_Mike

---

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---

### 1280. [aprssig] Tripmate for sale

From: "Lou Roux" <w6ur@bak.rr.com>  
Date: Fri, 30 Jun 2000 08:38:47 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-94136-2000.06.30-10.42.50--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Tripmate as new with manuals and SA 5.0. (no box) \$50.00 delivered conus.

Please reply via private e-mail.

Thanks... de Lou - W6UR

w6ur@arll.net

---

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---

### 1281. [aprssig] Airborne trackers/EMI

From: "Tom Clarke" <fclarke@erols.com>  
Date: Fri, 30 Jun 2000 15:56:03 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-94181-2000.06.30-15.00.15--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I guess I must not understand something here... is there that much VHF traffic north of the St Lawrence River - to Thule (well up the western shore of Greenland) that the channel is full time busy... I don't think so....

Tom sez: Quite correct! Not far North of Montreal the signals disappeared until the return trip. The problem obviously was only between DC and just North of Montreal.

I'm more inclined to read the original msg to be that the Tripmate couldn't get a GPS lock due to antenna placement and EMI in the aircraft... I'm of

the opinion (maybe misguided) that a Tripmate was NOT designed with the RF environment of a 40 YO military aircraft EM compatibility in mind... having been there... I know just how awful an EMI situation most aircraft are..especially the older aircraft...

Tom sez: Again correcto! I don't know if it was EMI or the effect of the NESA windshields. It worked OK with the non-heated W/S. BTW the EMI isn't too bad on this one as it is a 91 model with quite a bit of new avionics. A very unscientific EMI survey (listening on my HT!) shows the later machines much better than the 62 model. Makes sense, since we have a lot of stuff that are affected by and also generate EMI. Not EMI proofed like the TACAMO birds, but still quite good.

Maybe I misunderstood you Bob... does the THD7 understand noise as data that easily?

Rereading what I just typed.... maybe the problem is the THD7... and it being overwhelmed with the RF noise on that great old bird...

Tom replies: I don't think so, since it was doing a great job decoding all the packets. It just was seeing packets most of the time and inhibited transmit.

Maybe I'm just showing my ignorance... or maybe it's that frequent bug here on the SIG where what folks submit is so easily interpreted in many unforeseen ways..

ALOHA  
AH6LS

Tom opines: could be the lack of precision of the English language combined with a lack of precision by the writer (me!). At any rate we are still having fun!!

73 de Tom/W40KW

---

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---

## 1282. [aprssig] Need DB9 Pinout for RM GPS

From: Timothy McGowen <[searchk9@home.com](mailto:searchk9@home.com)>  
Date: Fri, 30 Jun 2000 12:55:18 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-94183-2000.06.30-15.00.58--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Got a great and rapid response to my original post requesting pin out information on the Rand McNally GPS unit.

I now have it for the din connector.

Still unable to find it for the DB9. Any help would be appreciated.

(BTW I'm trying to hook it up to my TM-D700A if you know any magic tricks)

TIA

Timothy McGowen  
KE6BSV

---

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---

## 1283. [aprssig] Field Day and Digital

From: Jeff Reinhardt <[jreinh@ix.netcom.com](mailto:jreinh@ix.netcom.com)>  
Date: Fri, 30 Jun 2000 13:01:53 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-94184-2000.06.30-15.11.36--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Sig:

Below please find a message I have sent to the President, First VP and the Southwest Division Director of the ARRL.

The Board meeting will be happening very soon. You may wish to contact your respective director on this matter, if we hope to see digital become a mainstream mode in operating events such as Field Day.

Jeff Reinhardt AA6JR

TO: Jim Haynie, Kay Craigie, Fried Heyn

This communication is written in anticipation of the upcoming Board meeting of the ARRL, in the hopes this item can be discussed as part of the agenda.

It is respectfully requested that the ARRL Board give direction to the ARRL Contest Manager to allow VHF and UHF digital stations, operating in Field Day and other events, to utilize digipeaters in the course of contest contacts.

History:

Digital communications are still in their infancy. Modes such as packet, RTTY, TOR modes, PSK 31, APRS and the like reflect emerging and popular uses. On the VHF and UHF bands, digipeaters are the normal mode of operation. Digipeaters are NOT repeaters, as defined in the FCC rules and in the ARRL/FCC rule book.

Discussion:

An interpretation from the ARRL Contest Manager that digipeaters are not allowed and that digital satellite contacts are not allowed (when voice operations through a satellite ARE allowed!) appears to demonstrate a bias against this particular (digital) mode by the League. This does not reflect well on the League's being an advocate for the advancement of the radio art.

A 1999 decision to designate digital as a separate mode was a step in the correct direction. Now, allowing that mode to be used AS IT WAS DESIGNED TO BE USED will allow it to start reaching its full potential.

Request:

That the Board give direction to the Contest Manager that digipeaters are allowed in ARRL events for VHF/UHF digital operations.

Thank you for the opportunity to comment on this matter.

Respectfully Submitted,

Jeff Reinhardt AA6JR  
Life Member - ARRL

---

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---

## 1284. [aprssig] GPS 35 info

From: Samuel Barker <[srbarker@chgw.com](mailto:srbarker@chgw.com)>  
Date: Fri, 30 Jun 2000 14:26:38 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-94186-2000.06.30-15.32.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I'm looking for a wiring diagram for a Garmin GPS 35 track pack. I just received the HVS version (bare cable ends), and wouldn't you know it, all Garmin sent with it was an invoice.

I downloaded what I could find from the website, but it isn't complete at all. Any help?

Samuel, W7YYY

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## 1285. [aprssig] Re: GPS 35 info

From: "Brent Hildebrand" <bhildebrand@earthlink.net>  
Date: Fri, 30 Jun 2000 13:35:03 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-94187-2000.06.30-15.39.42--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Garmin has the complete manual for the GPS-35 HVS on their web site.  
<http://www.garmin.com/products/gps35/manual.html>

Brent KH2Z

> I'm looking for a wiring diagram for a Garmin GPS 35 "track pack". I just  
> received the HVS version (bare cable ends), and wouldn't you know it, all  
> Garmin sent with it was an invoice.  
>  
> I downloaded what I could find from the website, but it isn't complete at  
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>  
> Samuel, W7YYY  
>  
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>  
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---

## 1286. [aprssig] Re: Need DB9 Pinout for RM GPS

From: "Bruce Coates" <bruce.coates@sk.sympatico.ca>  
Date: Fri, 30 Jun 2000 14:36:59 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-94188-2000.06.30-15.42.06--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I'm using the Rand McNally GPS with a TinyTrack kit and it's working  
perfectly with the following pins in the GPS's DB9 connector.

- 2 Data from host to GPS (Probably not necessary)
- 3 Data from GPS to host. (4800 baud)
- 5 Ground

Sorry, but I've never worked with the D700A so I have no words of wisdom  
there.

Good luck.

Bruce  
VESBNC

----- Original Message -----

From: "Timothy McGowen" <searchk9@home.com>  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Sent: Friday, June 30, 2000 1:55 PM  
Subject: [aprssig] Need DB9 Pinout for RM GPS

> Got a great and rapid response to my original post requesting pin out  
> information on the Rand McNally GPS unit.  
>  
> I now have it for the din connector.  
>  
> Still unable to find it for the DB9. Any help would be appreciated.  
>  
> (BTW I'm trying to hook it up to my TM-D700A if you know any magic  
> tricks)  
>  
> TIA  
>  
> Timothy McGowen  
> KE6BSV  
>  
> ---  
> You are currently subscribed to aprssig as: bruce.coates@sk.sympatico.ca  
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## 1287. [aprssig] RE: GPS 35 info

From: Samuel Barker <srbarber@chgw.com>  
Date: Fri, 30 Jun 2000 14:38:33 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-94189-2000.06.30-15.44.40--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I hope that's not as complete as they come, because the GPS 35 has an eight wire interface, and the manual you pointed to has a (too) simple wiring diagram labeling 5 of them...

Samuel, W7YYY

Garmin has the complete manual for the GPS-35 HVS on their web site.  
<http://www.garmin.com/products/gps35/manual.html>

Brent KH2Z

> I'm looking for a wiring diagram for a Garmin GPS 35 "track pack". I just  
> received the HVS version (bare cable ends), and wouldn't you know it, all  
> Garmin sent with it was an invoice.  
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> I downloaded what I could find from the website, but it isn't complete at  
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> Samuel, W7YYY  
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>  
>  
>  
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>



of a disaster? You know, loss of power, earthquake, floods, little things like that. I know there was recently a well know digipeater in the east that was non-functional due to loss of power during a minor emergency. It happens.

I don't think there is a much of a chance of being taken seriously unless we recognize the real purpose of field day, not what it has become.

Now, if your saying the digipeaters you want to use are set up in portable operation for emergencies or that the digi's you want to use are ruggedized with back-up power, that's a different story. I just don't see that in your letter.

The neat thing about digital store and forward (digipeaters) is its much easier to set up then a voice repeater. Your group could put together a portable digi with car battery in it and place it on top of a tall building. Or rent a Cessna 152 and burn holes in the sky for a few hours. Lots of ways to satisfy the spirit of field day and allow digital communications through digipeaters.

Now, your point about the Satelites IS a good point, as they are independent of the power mains. Although I've never viewed the league as a advocate of anything other then their members, which more often then not are against any real progress, especially if it will hurt their chances at DXCC or bother their rarely used 2m repeater. But I digress.

Good luck.

-Jeff

Jeff Reinhardt wrote:

> Sig:  
>  
> Below please find a message I have sent to the President, First VP and  
> the Southwest Division Director of the ARRL.  
>  
> The Board meeting will be happening very soon. You may wish to contact  
> your respective director on this matter, if we hope to see digital  
> become a mainstream mode in operating events such as Field Day.  
>  
> Jeff Reinhardt AA6JR  
> =====  
>  
> TO: Jim Haynie, Kay Craigie, Fried Heyn  
>  
> This communication is written in anticipation of the upcoming Board  
> meeting of the ARRL, in the hopes this item can be discussed as part of  
> the agenda.  
>  
> It is respectfully requested that the ARRL Board give direction to the  
> ARRL Contest Manager to allow VHF and UHF digital stations, operating in  
> Field Day and other events, to utilize digipeaters in the course of  
> contest contacts.  
>  
> History:  
>  
> Digital communications are still in their infancy. Modes such as packet,  
> RTTY, TOR modes, PSK 31, APRS and the like reflect emerging and popular  
> uses. On the VHF and UHF bands, digipeaters are the normal mode of  
> operation. Digipeaters are NOT repeaters, as defined in the FCC rules  
> and in the ARRL/FCC rule book.  
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> Discussion:  
>  
> An interpretation from the ARRL Contest Manager that digipeaters are not  
> allowed and that digital satellite contacts are not allowed (when voice  
> operations through a satellite ARE allowed!) appears to demonstrate a  
> bias against this particular (digital) mode by the League. This does not  
> reflect well on the League's being an advocate for the advancement of  
> the radio art.  
>  
> A 1999 decision to designate digital as a separate mode was a step in  
> the correct direction. Now, allowing that mode to be used AS IT WAS  
> DESIGNED TO BE USED will allow it to start reaching its full potential.  
>  
> Request:  
>  
> That the Board give direction to the Contest Manager that digipeaters  
> are allowed in ARRL events for VHF/UHF digital operations.



>  
> Thank you for the opportunity to comment on this matter.  
>  
> Respectfully Submitted,  
>  
> Jeff Reinhardt AA6JR  
> Life Member - ARRL  
>  
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## 1290. [aprssig] RE: GPS 35 info

From: "Brent Hildebrand" <bhildebrand@earthlink.net>  
Date: Fri, 30 Jun 2000 13:52:43 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-94195-2000.06.30-15.57.14--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

IF you read the manual, and IF you go to page 13, Section 3.3, you will find a rather detailed description of the 8 wires that are available for interfacing the GPS 35. You will find the whole page devoted to it, with quite complete description of each wire and their function. How much more detail would you like? <grin> Hmm, the actual wire size is not listed.  
I

Brent KH2Z

----- Original Message -----  
From: "Samuel Barker" <srbarker@chgw.com>  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Sent: Friday, June 30, 2000 1:38 PM  
Subject: [aprssig] RE: GPS 35 info

> I hope that's not as complete as they come, because the GPS 35 has an eight  
> wire interface, and the manual you pointed to has a (too) simple wiring  
> diagram labeling 5 of them..  
>  
> Samuel, W7YYY  
>  
>  
> Garmin has the complete manual for the GPS-35 HVS on their web site.  
> <http://www.garmin.com/products/gps35/manual.html>  
>  
> Brent KH2Z  
>  
>  
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> > received the HVS version (bare cable ends), and wouldn't you know it, all  
> > Garmin sent with it was an invoice.  
> >  
> > I downloaded what I could find from the website, but it isn't complete at  
> > all. Any help?  
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## 1291. [aprssig] RE: GPS 35 info

From: Samuel Barker <srbarker@chgw.com>  
Date: Fri, 30 Jun 2000 14:52:38 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-94196-2000.06.30-15.58.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Thanks to my stupidity, I missed the section in the manual that listed the information I needed. I was looking for a diagram, and it was in the text the whole time.

Boy do I feel silly....

Thanks for your help, and the patience of the SIG.

Samuel, W7YYY

-----Original Message-----  
From: bounce-aprssig-17117@lists.tapr.org  
[mailto:bounce-aprssig-17117@lists.tapr.org] On Behalf Of Samuel Barker  
Sent: Friday, June 30, 2000 2:27 PM  
To: TAPR APRS Special Interest Group  
Subject: [aprssig] GPS 35 info

I'm looking for a wiring diagram for a Garmin GPS 35 "track pack". I just received the HVS version (bare cable ends), and wouldn't you know it, all Garmin sent with it was an invoice.

I downloaded what I could find from the website, but it isn't complete at all. Any help?

Samuel, W7YYY

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## 1292. [aprssig] Re: Field Day and Digital

From: Jeff Reinhardt <jreinh@ix.netcom.com>  
Date: Fri, 30 Jun 2000 14:43:38 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-94204-2000.06.30-16.55.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Jeff:

To my knowledge, nearly every high level digipeater in SoCal has a backup power source. What with quakes, floods, fires, etc. out here, it doesn't make much sense to not have backup power. Perhaps I (wrongly) assumed most digis are constructed in a similar manner. It may be a good topic in another string.

Jeff Reinhardt AA6JR

=====

Jeff King wrote:

>

> I thought Field Day was supposed to be a test of emergency operations, and not  
> a contest? I know in reality it is, but the assumption these folks that set the rules  
> need to go by is that it is a test of emergency communications. Or at least when I  
> was a kid and went to these events, this is what was claimed to me it was.

>

> So, how many of these digipeaters you want to use would be on the air in the event  
> of a disaster? You know, loss of power, earthquake, floods, little things like that.  
> I know there was recently a well know digipeater in the east that was non-functional  
> due to loss of power during a minor emergency. It happens.

>

> I don't think there is a much of a chance of being taken seriously unless we recognize  
> the real purpose of field day, not what it has become.

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> Now, if your saying the digipeaters you want to use are set up in portable operation  
> for emergencies or that the digi's you want to use are ruggedized with back-up  
> power, that's a different story. I just don't see that in your letter.

>

> The neat thing about digital store and forward (digipeaters) is its much easier to  
> set up then a voice repeater. Your group could put together a portable digi with  
> car battery in it and place it on top of a tall building. Or rent a Cessna 152 and  
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> the power mains. Although I've never viewed the league as a advocate of anything  
> other then their members, which more often then not are against any real progress,  
> especially if it will hurt their chances at DXCC or bother their rarely used 2m  
> repeater. But I digress.

>

> Good luck.

>

> -Jeff

>

> Jeff Reinhardt wrote:  
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> > Jeff Reinhardt AA6JR  
> > =====  
> >  
> > TO: Jim Haynie, Kay Craigie, Fried Heyn  
> >  
> > This communication is written in anticipation of the upcoming Board  
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> > Thank you for the opportunity to comment on this matter.  
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> > Respectfully Submitted,  
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> > Life Member - ARRL  
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> > ---  
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### 1293. [aprssig] Re: Field Day and Digital

From: "Jeff Brenton" <jeffb@espi.com>  
Date: Fri, 30 Jun 10 17:39:45 CST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: aprssig@tapr.org  
Message-ID: <LYR842-94208-2000.06.30-17.44.52--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> how many digis will be operational in an emergency?

The point is, ANY station on the air during the emergency  
can be used as a digi (assuming DIGI ON), so you could assume  
that any other FD site you hear/can hit will be able to extend your

range... except that it's against the rules.

Unlike voice repeaters, the packet "network" can regenerate "on the fly", so to speak... why can't the rules allow for that?

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## 1294. [aprssig] RE: Field Day & Digital

From: Jeff Reinhardt <[jreinh@ix.netcom.com](mailto:jreinh@ix.netcom.com)>  
Date: Fri, 30 Jun 2000 15:48:16 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-94211-2000.06.30-18.02.02--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-94211-2000.06.30-18.02.02--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

In my first post on this subject I forgot to add that your ARRL director's e-mail address is available in each issue of QST (look in the front of the mag) and at the ARRL web site, [www.arrl.org](http://www.arrl.org)

Drop them a note. It can't hurt.

Jeff Reinhardt AA6JR

---

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## 1295. [aprssig] Re: Field Day and Digital

From: Jeff King <[jeff@aerodata.net](mailto:jeff@aerodata.net)>  
Date: Fri, 30 Jun 2000 19:09:24 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: [aprssig@tapr.org](mailto:aprssig@tapr.org)  
Message-ID: <[LYR842-94212-2000.06.30-18.12.22--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-94212-2000.06.30-18.12.22--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

OK, but Field Day is not a emergency. Its a simulated emergency. How do you know every digi you use would be operational in a real emergency (no power, towers fallen on the ground, etc etc)?

Sometimes it helps to put yourself in your opponents shoes, in this case, the ARRL. I am not your opponent, I was just suggesting some legitimate reasons they might disallow digipeaters.

Last time we had a power failure in my area (about 10 years ago) I'd say less then 10% of the digi's where still on the air. Yes, we don't have mountains here, so "everyone" thinks they are a major digi. The real digi's faired a bit better.

Try to think of compelling reasons for them to allow these to be used. Maybe restrict digi's just to ones on emergency power or deploy "porta-digis" during field day at high sites.

I think digi's should be allowed, but often one forgets that field day didn't start out to be a contest or a beer party. In your choice of digi's to use, at least the first hop, you should make sure that that digi has backup power. That would be keeping in the spirit of FD.

-Jeff

P.S. Check the date on your computer.

Jeff Brenton wrote on Fri, 30 Jun 100 17:39:45 CST:

> > how many digis will be operational in an emergency?  
>  
> The point is, ANY station on the air during the emergency  
> can be used as a digi (assuming DIGI ON), so you could assume  
> that any other FD site you hear/can hit will be able to extend your  
> range... except that it's against the rules.  
>  
> Unlike voice repeaters, the packet "network" can regenerate "on  
> the fly", so to speak... why can't the rules allow for that?

---

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## 1296. [aprssid] Re: GPS 35 info

From: Wally Foster <[wfoster@hsc.usc.edu](mailto:wfoster@hsc.usc.edu)>  
Date: Fri, 30 Jun 2000 16:15:23 -0700  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-94213-2000.06.30-18.23.49--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-94213-2000.06.30-18.23.49--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Sam, if you downloaded the manual, look at page 4.. Section 1.5  
Application deals with wiring and is quite specific (including a  
picture).. I like mine.. 73..  
Wally N6CDJ

---

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## 1297. [aprssid] IGATE wa4dsy.net

From: Dale Heatherington <[dale@wa4dsy.net](mailto:dale@wa4dsy.net)>  
Date: Fri, 30 Jun 2000 19:31:37 -0400  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-94215-2000.06.30-18.39.31--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-94215-2000.06.30-18.39.31--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Those of you using the igate wa4dsy.net please keep in mind it's  
limited to 20 users and is running at max capacity now. You can  
check the current load with your web browser: <http://wa4dsy.net:14501/>

--

Dale Heatherington  
[dale@wa4dsy.net](mailto:dale@wa4dsy.net)  
Web Page <http://www.wa4dsy.net>  
Sent by KMail for Linux

---

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---

## 1298. [aprssid] Balloon launch Saturday

From: "Mark D. Conner" <[mconner@null.net](mailto:mconner@null.net)>  
Date: Fri, 30 Jun 2000 18:42:42 -0500  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-94218-2000.06.30-18.46.50--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-94218-2000.06.30-18.46.50--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

It looks like a "go" for the triple APRS balloon launch from Manhattan, KS.  
APRS will be on 144.340 MHz and I-gate support should be available. Calls  
will be N9XTN-11, KA0JLF-11, and N3KKM-11.

Launch time: 7-8am CDT (1200-1300 UTC) Saturday 1 July  
Launch site: near Manhattan KS  
Flight duration: 1.5-2.5 hours  
Max altitude: N9XTN-11 - near 95,000 ft, others to about 70,000 ft.  
Distance: about 40-50 miles to ESE

73 de Mark N9XTN

---

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## 1299. [aprssid] New Experimental Version of AGWPE 2000.63

From: "Bill Kearns" <[billk@inland.net](mailto:billk@inland.net)>  
Date: Fri, 30 Jun 2000 16:38:30 -0700  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-94219-2000.06.30-18.48.17--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-94219-2000.06.30-18.48.17--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

<http://www.elcom.gr/sv2agw/>

NEW Toys To Play With!!!  
You will find in the download page another version of AGW Packet  
Engine,newer. This is Version 2000.63. This new version has built in a new

"experimental" interface, which is still under development. You will be able to monitor the packet traffic using your WEB Browser. I will include ,later, the ability to do packet (connect,chat,yapp etc.) using just your WEB Browser.

How to use it First of all download the version 2000.63. Now run it. Launch your Browser. To monitor the packet traffic just type, in the address bar of your browser the address of the computer where AGW Packet Engine runs. If this is the same computer ,where AGW Packet Engine runs, just type 127.0.0.1 or localhost. After that you will receive a page with 3 menu/buttons ,select the monitor menu entry, and Voila.....

This is a total experimental version, so keep your previous version as backup in case of problems.

I would like to receive your comments about this.

AGW Packet Engine ver 2000.61

An intermediate version. The new compiler needs some other settings so it may have bugs. This version solves the DIALUP problem and some other minor. This is a new version ,compiled with a new compiler. It is smaller and should be faster and lighter. A lot of hidden bugs were found and fixed. The executable has now a new name and is called AGW Packet Engine.exe. So be careful, after the zip extraction change your links. Your old version executable will still work.

New Utility

NtAutoLogOn. This is an Utility that works for WinNT/2000. It helps you to bypass the [CTRL-ALT-DEL] startup LogOn Procedure. Use it and NT/2000 will never again ask you for LogOn. The file is in the downloads page at the bottom.

New HTML Documentation for Developers. See how you can program the TCPIP AGW Packet Engine interface, using C and Delphi. It is an excellent article written by Pedro (LU7DID).

For Hardware manufacturers:

If you have a tnc or modem and wish to include it in the AGW Packet Engine support list send me a piece to test it and write the driver if needed. I will write a new web page including there all the packet tncs/modems I tested with their link to its home page.

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---

### 1300. [aprssig] Re: Experimental Version of AGWPE 2000.63 (Tips)

From: "Bill Kearns" <billk@inland.net>  
Date: Fri, 30 Jun 2000 17:29:43 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-94222-2000.06.30-19.39.23--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

it works.

i downloaded both agwpe.zip and agwpeweb.zip and dumped them both into  
c:\agwpe (saying yes, yes, yes to everything...)

but the version still says 2000.61 (huh?)

dont give up yet....

now launch agwpe

then, launch the browser, type 'localhost' in address bar...

now... using your mouse...play with it just below the black bar

so as to get the verticle 'double arrows' so as to pull down  
the sizing line just below the text in the black bar reading:

MAIN MENU

AGW PACKET ENGINE

this will allow you to see the three buttons...(took me a while to figure  
this one out...)

monitor          mheard list          connect

i simply clicked on monitor.....

all the aprs data just rolls on in.....cool.

---

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---

### 1301. [aprssig] Re: Experimental Version of AGWPE 2000.63 (Tips)

From: Jeff King <jeff@aerodata.net>  
Date: Fri, 30 Jun 2000 21:02:06 -0400  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-94225-2000.06.30-20.03.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bill:

Whats your IP number on your machine? I assume this also means people from the outside world can access your AX.25 port. Like to check it out (I'll play nice ;-)

73

Jeff

Bill Kearns wrote:

```
> it works.
>
> i downloaded both agwpe.zip and agwpeweb.zip and dumped them both into
> c:\agwpe (saying yes, yes, yes to everything...)
>
> but the version still says 2000.61 (huh?)
>
> dont give up yet....
> now launch agwpe
> then, launch the browser, type 'localhost' in address bar...
>
> now... using your mouse....play with it just below the black bar
> so as to get the verticle 'double arrows' so as to pull down
> the sizing line just below the text in the black bar reading:
>
> MAIN MENU                                AGW PACKET ENGINE
>
> this will allow you to see the three buttons...(took me a while to figure
> this one out...)
>
> monitor      mheard list      connect
>
> i simply clicked on monitor.....
>
> all the aprs data just rolls on in.....cool.
>
> ---
> You are currently subscribed to aprssig as: jeff@aerodata.net
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
```

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---

### 1302. [aprssig] APRS Demostration

From: "Alex Pinheiro Machado Rodrigues" <alexmac@tba.com.br>  
Date: Fri, 30 Jun 2000 22:07:22 -0300  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-94226-2000.06.30-20.12.27--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi Sig.

Tomorrow I will demonstrate the APRS to some hamradio's of my city  
Brasilia,Brazil.

I'm looking for someone from others countries to call me and to do some  
QSO's using APRS.

I will use callsign PT2VHF-7 (my car with a notebook).

Should be from 01:30 PM to 03:30 PM (UTC, Brasil local time -3 hours)

If global aprs network is down, please use our aprs serve at aprs.cq.com.br  
10151



Thanks for the cooperation!

Alex, PT2VHF  
BRAZIL

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### 1303. [aprssig] aprs.net down

From: Steve Dimse <[k4hg@tapr.org](mailto:k4hg@tapr.org)>  
Date: Fri, 30 Jun 2000 21:58:39 -0400  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-94232-2000.06.30-21.02.59--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

There was an hour long power failure yesterday at the museum, the server did not come back up, and apparently manual power reset did not work. I had planned to go there today to fix it, but instead got my leg casted for a oblique distal fibula fracture. Priorities...

At this point I hope to be there on the 3rd or 5th...

As to the DNS issues, I have discussed many times previously, I am unable to change anything in my records with Network Solutions. I have sent many emails, faxes, and registered letters to them. I have accepted the offers of people to try to hack my domains, all to no avail.

I appreciate the offers to be secondary hosts, there are dozens that have offered. However, until I can change the NSI record, it makes no difference.

Steve K4HG

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### 1304. [aprssig] Re: aprs.net down

From: Byron Smith <[wa6ylb@theworks.com](mailto:wa6ylb@theworks.com)>  
Date: Fri, 30 Jun 2000 19:08:04 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: [aprssig@tapr.org](mailto:aprssig@tapr.org)  
Message-ID: <LYR842-94234-2000.06.30-21.15.55--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

See what happens when you take up "break dancing"?

but instead got my leg casted  
>for a oblique distal fibula fracture. Priorities...

Byron Smith  
[wa6ylb@theworks.com](mailto:wa6ylb@theworks.com) - Webpage: <http://www.theworks.com/~wa6ylb>  
[wa6ylb@wa6ylb.nca.ca.usa.noam](mailto:wa6ylb@wa6ylb.nca.ca.usa.noam)  
ICQ 26114994

If a man makes a statement, deep in the forest, and there isn't a woman around to hear him, is he still wrong?

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### 1305. [aprssig] Re: aprs.net down

From: Brendan Keyport <[bkeyport@uswest.net](mailto:bkeyport@uswest.net)>  
Date: Fri, 30 Jun 2000 20:03:40 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: [aprssig@tapr.org](mailto:aprssig@tapr.org)  
Message-ID: <LYR842-94239-2000.06.30-22.07.53--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>There was an hour long power failure yesterday at the museum, the server  
>did not come back up, and apparently manual power reset did not work. I

>had planned to go there today to fix it, but instead got my leg casted  
>for a oblique distal fibula fracture. Priorities...

Ooops. Don't do what caused that again. :)

>As to the DNS issues, I have discussed many times previously, I am unable  
>to change anything in my records with Network Solutions. I have sent many  
>emails, faxes, and registered letters to them. I have accepted the offers  
>of people to try to hack my domains, all to no avail.

Ahh, yes, the famous NSI problems strike again. NSI - "We Make the  
Government look fast and efficient!"

--  
May Peace and Love be Yours,  
73 De N7UIE  
B Keyport

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## 1306. [aprssig] Band opening -- AGAIN!

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Fri, 30 Jun 2000 21:52:50 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-94245-2000.06.30-22.59.07--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I thought I could tell something was up when I left the house about  
an hour ago. Look what came in while I was out, all between 2103 and 2141  
MY TIME.

KD7FBT>APW233,WA5IHL-11\*,WIDE6:=4659.00N/12349.65W\_PHG7198/WinAPRS 2.3.3  
-WAGRAABERDEEN-233-<520>  
KD7FBT>APW233,WA5IHL-11\*,WIDE6: \_07010411c198s000g000t058r000p000P000h00b1112  
2wU2K

1393 miles!

K7UJ>APW241,WA5IHL-11\*,WIDE5-1:=4724.71N/12018.83W-PHG3218/WinAPRS 2.4.1  
-WACHEWENATCHE-241-<520>  
K7UJ>APW241,WA5IHL-11\*,WIDE5-1:=4724.71N/12018.83W-PHG3218/WinAPRS 2.4.1  
-WACHEWENATCHE-241-<520>

1273 miles!

K7CTS-10>APRS,WA5IHL-11\*,WIDE5:\$GPGGA,184511,4750.942,N,11820.151,W,1,06,1.4  
,487.7,M,-17.2,M,,\*78

1216 miles! MOTORCYCLE!!!

KA7ENA>APW228,WA5IHL-11\*,WIDE4:\_06271858c337s000g000t079r000p000P000h...b...  
.wUII  
KA7ENA>APW228,WA5IHL-11\*,WIDE4:=4737.35N/11742.76W\_PHG2160/WinAPRS 2.2.8  
-WASPOMEDICAL -228-<520>

1183 miles!

K7WFC-10>APRS,WA5IHL-11\*,WIDE5:!4606.18NN11907.71W#PHG5892/JUMP OFF JOE

1165 miles!

Also received the following, but no posit info:  
K7WFC-10>APRS,WA5IHL-11\*,WIDE5:!4606.18NN11907.71W#PHG5892/JUMP OFF JOE

Could this have come through an IGATE without being labelled as such?

7 3  
Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>

Clovis, New Mexico            DM84jk N34d 25.446m W103d 12.700m (or so)  
PGP Key ID 0xC3FDA66E

Pet peeve: breath is a noun, breathe is a verb (When you take a breath,  
you breathe...)

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### 1307. [aprssig] RIGHT NOW!

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Fri, 30 Jun 2000 21:53:03 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-94244-2000.06.30-22.59.03--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

They're STILL coming in! This JUST came in!!!

W7CCY-10>BEACON,WA5IHL-11\*,WIDE5:!4716.40NN12024.35W#PHG6860/MISSION RIDGE APRS

1270 miles!

KC7WFD>APW247,WA5IHL-11\*,WIDE5:=4612.28N/11909.10WrPHG1118/WinAPRS 2.4.7  
-WABENKENNEWIC-247-<530>

1171 miles!!!

7 3  
Earl

Earl Needham, KD5XB        mailto:KD5XB@AMSAT.ORG  
Clovis, New Mexico            DM84jk N34d 25.446m W103d 12.700m (or so)  
PGP Key ID 0xC3FDA66E

Pet peeve: breath is a noun, breathe is a verb (When you take a breath,  
you breathe...)

---

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# December 2000

Original source file: aprssig.0012

Source: [http://ftp.tapr.org/tapr\\_history/SIG\\_Archives/aprssig/mail\\_archive/aprssig.0012](http://ftp.tapr.org/tapr_history/SIG_Archives/aprssig/mail_archive/aprssig.0012)

## 1. [aprssig] Re: Cybiko 900 mhz data toy

From: "Keith Kotch" <kotch@mpinet.net>  
Date: Fri, 1 Dec 2000 08:40:44 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122267-2000.12.01-07.51.22--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Don't know but bet Bob B. will have a couple of them under his Christmas Tree to go along with the FRS radios for the Scouts! ;-)

Looks interesting but the range is such a limiting factor. Could see applications for classrooms but not much else because of the range. For personal comms it still seems like FRS is the way to go.

However, with the wireless data technology at 19.2kbps available for only \$99 is there something there for us to hack with and reverse engineer? It seems we (hams) already have the ability to do the same thing with more power (argh, argh a la Tim "the Toolman" Taylor) but is there anything to learn from the Cybiko units?

Keith  
Keith Kotch  
Ambient Design Consultants 407-673-1901  
I'm a Ham too, Amateur Radio Call: KF4BXT

----- Original Message -----  
From: David Cook <dcook@warpsnet.net>

APRS SIG:  
Does anyone have one of these toys marketed for teens? I'm curious as to how well these work. I've been reading about it on their web site: <http://www.cybiko.com/>

---  
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Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

## 2. [aprssig] Re: Tracking the Ballots (fwd)

From: Doug Ferrell <kd4moj@kd4moj.org>  
Date: Fri, 01 Dec 2000 09:27:07 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122269-2000.12.01-08.43.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 05:07 PM 11/30/2000 -0500, Bob Bruninga wrote:  
>Hey you guys in Florida!, HERE IS A PR STUNT.... Anyone around that can  
>post OBJECTS as to the movement of the ballots?  
>  
>----- Forwarded message -----  
>From: "Hill, Steven C" <steven.hill@baesystems.com>  
>Subject: Tracking the Ballots  
>  
>Bob,  
> Might be a good PR stunt to track the ballots in Florida as they make  
>their way to Tallahassee. Could let all the media know the web page to track  
>the votes.  
>

WE did have a ham in a satellite truck up here several weeks ago (cannot remember his call) but he has disappeared from the screen. I've got some pictures of the trucks that I will post. This big rigs are taking up EVERY available space in parking lots around the capitol and supreme court buildings!

...DOUG  
kd4moj

Where am I????? ----->>>> <http://map.findu.com/kd4moj>  
<http://www.tallahassee-scanner.com> Scanning Tallahassee Florida

```
+-----+
| Doug Ferrell                               (850) 575-7119 |
| kd4moj@kd4moj.org, http://www.kd4moj.org      Fax (850) 575-6577 |
| Amateur Radio & Television (ATV), APRS        APRS 144.390 Mhz |
| 3027.27N / 08420.80W Tallahassee Florida    131.8 CTCSS 444.400 Mhz |
+-----+
```

---

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---

### 3. [aprssig] Re: [htaprs] Auto-On GPS?

From: John Gorkos <[jgorkos@san-carlos.rms.slb.com](mailto:jgorkos@san-carlos.rms.slb.com)>  
Date: Fri, 01 Dec 2000 12:37:43 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-122292-2000.12.01-12.47.38--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Robert Snyder N2KG0 wrote:

> Right now it looks like the cheapest units out there are the refurb  
> Tripmate, Earthmates, and the eTrex.... The Earthmate is out because of  
> the NMEA issue, and the Tripmate you need to short a pin out to get it to  
> start NMEA. Looking at the online manual, I don't see a way of getting the  
> eTrex to automatically power up....

The pin on the TripMate can REMAIN shorted all the time. This is the setup I use in my car. I performed the Tripmate surgery, implanting a 5V regulator and shorting the TX and RX connectors. I have a Cigarette lighter socket that powers up with the ignition, and a standard radio shack power connector with a Y splitter: one side powers up the Tripmate, the other side powers up the D7A. When I turn the car on, the Tripmate and D7 both power up. The only downside is that the D7 will transmit whatever initial garbage the Tripmate sends, but it at least marks it as invalid NMEA data. I would suggest using a 6V regulator vs. a 5V regulator in the Tripmate, it will lock up faster and stay locked better. I've had my Tripmate sitting in the front windshield of my car for about 8 months, and the only noticable effects are that it's starting to fade from the UV.

The next step is to provide constant power to the tripmate and just have the D7 on ignition-sense power. That would cut down on the number of bogus location packets I transmit.

>

> Anyone have any suggestions? I'd hoped to mount this in the back window  
> ledge of my car, which makes manually powering it up difficult every time I  
> start the car....

>

> Bob N2KG0

>

---

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---

### 4. [aprssig] Radios cheap

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Fri, 1 Dec 2000 13:45:36 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-122297-2000.12.01-13.00.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I was in RatShack yesterday and noticed:

The UHF HT was on clearance for \$79 (Usable AO-27, U014, S035 downlinks)  
Then 10m Rig was on sale for \$139 (A great tunable IF)  
The simplex VOX repeater was on clearance for \$29 (from 99)

de WB4APR, Bob

---

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## 5. [aprssig] Re: [htaprs] Auto-On GPS?

From: Robbie Robertson <mrobertson@mediaone.net>  
Date: Fri, 01 Dec 2000 14:10:53 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122305-2000.12.01-14.20.59--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

John Gorkos wrote:

>  
> The next step is to provide constant power to the tripmate and just  
> have the D7 on ignition-sense power. That would cut down on the number  
> of bogus location packets I transmit.  
>

What I did was to program PM-5 to match my normal operation, except PM-5 turns off the intensity of the front panel, and changes the beacon rate to say every 35 minutes. The GPS, Rand McNally, is 24/7/365. I now have the opportunity to observe my car in the parking lot, in PM-5, go back to normal mode, or turn it off altogether..

Another nice thing with this setup, no speed/direction line while you're setting park unless you just abruptly turn off the D-700 before it updates you "not moving" data...

73!

--

-----  
Are we having fun yet?  
73 - Robbie - WA9INF  
\*\*\*\*\* --... -- \*\*\*\*\*

---

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---

## 6. [aprssig] GArmin Cable

From: Bob Bruninga <bruninga@usna.edu>  
Date: Fri, 1 Dec 2000 15:15:27 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122306-2000.12.01-14.28.11--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

ARGH!

A month ago I asked on this sig if the supplied moulded GPS-III+ data cable that has a DB-9 on the end included the power lead or not.

I got many assurances that "the red wire" is in there.

So when we needed a powered cable for our football run today. we cut the nice cable in half to get to the power lead. Guess what, As I expected (and the reason why i asked in the first place), the red wire is NOT in there...

caveat emptor  
Bob

---

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---

## 7. [aprssig] Re: Taming of the Shrewer uhhh SIG????/deaf D7a????!!!!

From: "Henk de Groot" <henk.de.groot@hetnet.nl>  
Date: Sat, 2 Dec 2000 00:31:38 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122317-2000.12.01-18.06.43--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> > seem to be having some issues with the APRS side of the Kenwood D7A (not  
the  
> > g version) on some occasions I will be seeing the s-meter going full  
scale

> > and hearing clear packets from the local digis, however it is not  
populating  
> > any information on the screen, almost as if it is deaf.  
>  
> The problem here is the audio tones from those local Digipeaters. While  
> the Kenwood TNC is very sensitive and can work all the way down to only  
> one LCD segment on the S-meter, it does require that the tones be properly

Sorry, it is not. It is a bug in the Kenwood TH-D7A/E. See my other reply on  
this subject. Try it and you will see that it behaved \*exactly\* as I  
described. It just stops decoding the packets, regardless of the quality of  
the signal. If you press BCON and it does not transmit a beacon you know for  
sure since transmitting beacons has no relation with the reception quality.  
I dare to put a bet on this!

Kind regards,

Henk.

---

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## 8. [aprssig] Re: Injecting Sunsat digilogs into APRServe (fwd)

From: "Henk de Groot" <henk.de.groot@hetnet.nl>  
Date: Sat, 2 Dec 2000 00:44:50 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122318-2000.12.01-18.09.37--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> On Wed, 29 Nov 2000, Alex asked about using the D7E for the APRS  
> satellites:  
>  
> > > 2) Kwd D700 or D7(G): set to 9600 baud beacon once a minute on  
145.825  
> > > 4) Monitor 425.250 +/- 10 Khz for 9600 baud downlink  
> >  
> > Does this work on a D7E yet or does it only work on the G version?  
>  
> Not having a D7E, I cannot be sure. But in any case, ANY D7A or D7E can  
> be used with an external computer in APRS mode via the satellites at 9600  
> baud. Just set HB to 9600.

There are two D7Es. The one with version 1.0 prom which is basically the  
same as the D7A and one with a version 2.0 prom which cannot be compared  
with an American TH-D7. The 2.0 version attempted to fix DAMA (partial  
success) and can work in KISS (but is too slow to use 9600 baud with this).

Version 1.0 is like the D7A, so no 9600 baud in standalone mode. In version  
2.0 you can select the baudrate for APRS use. It is in APRS menu 2-D "PACKET  
SPEED" with settings 1200 and 9600 bps. I think it was mainly used to  
monitor DX cluster traffic on a LAP, but due to the inability to receive  
long UI frames (see other recent posting) this feature is useless. It can be  
used on SUNSAT however.

You can determine if you have a 1.0 or 2.0 prom in your TH-D7E by looking up  
APRS menu 2-D. If it is not there you have a 1.0 version, if it is there  
then it is a 2.0 version.

Kind regards,

Henk.

---

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## 9. [aprssig] Re: [htaprs] Auto-On GPS?

From: "Kurt O. Jauss" <kf6hjo@lightspeed.net>  
Date: Fri, 01 Dec 2000 16:12:13 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>

Message-ID: <LYR842-122336-2000.12.01-18.27.46--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

I would also add the Rand McNally GPS.

John Gorkos wrote:

> Robert Snyder N2KGO wrote:  
> > Right now it looks like the cheapest units out there are the refurb  
> > Tripmate, Earthmates, and the eTrex... The Earthmate is out because of  
> > the NMEA issue, and the Tripmate you need to short a pin out to get it to  
> <SNIP>  
> > Bob N2KGO  
> >  
>  
>

--  
Kurt O. Jauss  
kf6hjo@lightspeed.net  
3630.45N 11940.50W 144.39Mhz  
Selma Ca. {APRS Weather & GPS Tracker}  
SKYWARN member Hanford Ca. NWS/NOAA/HNX  
DOSAPRS/WAPRS/APRS+SA  
Want to find my truck? <http://www.findu.com/cgi-bin/find.cgi?kf6hjo-9>

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## 10. [aprssid] Re: Alinco 145??

From: Wes Johnston <kd4rdb@usa.net>  
Date: 2 Dec 00 00:15:48 EST  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-122355-2000.12.01-23.27.45--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

Can you remotely admin the dr135? like with MYREMOTE callsign and RTEXT? For that matter, can you do it with either of the kenwoods?

Wes

Karl was the only Marx brother who never smiled.

---

Get free email and a permanent address at <http://www.netaddress.com/?N=1>

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## 11. [aprssid] Re: [htaprs] Re: Auto-On GPS?

From: Qrpvhf@aol.com  
Date: Sat, 2 Dec 2000 01:03:01 EST  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-122366-2000.12.02-00.14.36--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

On the topic of the Rand McNally GPS units, a couple of people locally have them and we have found them to lock-on within about 30 to 45 seconds after power-up, when placed on a dashboard with good view of the sky.

Looking at getting a couple for myself as soon as old St.Nic gets out of my bank account...

Jacob Tennant, K8JWT

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## 12. [aprssid] aprs.net?



From: tom@bluesky.org  
Date: Sat, 2 Dec 2000 06:29:08 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122382-2000.12.02-08.37.38--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

www.aprs.net seems to be inaccessible, at least for me, for the last two days. Anyone know what's up? tom@bluesky.org

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---

### 13. [aprssi] You've come a long way baby

From: Bob Bruninga <bruninga@usna.edu>  
Date: Sat, 2 Dec 2000 10:35:57 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-122383-2000.12.02-09.47.41--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

While doing this years Army/Navy game football run (the oldest annual APRS event since 1991) I realized how easy it has become.

This year we used a D700 and VCH1 in the FBALL van and D7's in the other two chase vehicles with one power connection to the cig lighter. Thats all. Yet we had

APRS Tracking  
APRS tracking on the WEB  
APRS Messaging  
APRS MAP display in the vehicles (on the GPS screens)  
APRN SSTV "KEN-CAM" imging to and from the FBALL van to the WEB (manual)  
VOICE on band B.

And the icing on the cake was John Hansen's KEYBOARD interface that allowed the D700 operator to have a mini-keyboard on his lap for full text message entry. (No, I do not know when it will be available. He sent me a prototype back at DCC. Its just a BB that connects to the Radio Mic jack.)

Compared to all the laptops, dual radios, multiple antennas, portable battery packs and mounting brackets that we have used over the years, this was a SNAP!

Some think that APRS is boring. It IS. Totally... Unless you get out and do something with it! Enjoy,

de WB4APR, Bob

But to get the most out of it, you need training and experience. Our operators had never seen a D7 or D700 except for about 10 minutes before the event and so APRS was not used to its fullest capabilities. But this years event from Annapolis to Baltiomre was only about 20 miles instead of the usual 130 or 330 mile event, so the whole route was within range of one voice repeater, instead of ranging over 3 states. VOice was fine.

Highlights:

- 1) We used a MESSAGE GROUP call so that D7 operators could send all their messages to just the group call and everyone involved would get them.
- 2) We set to a 2 minute beacon rate to keep channel loading down, but this is useless when trying to rendezvous. When getting close, operators should have mannually pressed the BCON button a few times to capture each other on their GPS displays for close maneuvering.
- 3) It will be great someday when someone gets a good automatic APRN (Automatic Picture Relay Network) going so that we dont have to manually receive, transfer, and label the KEN-CAM images to the WEB page. This is a great area for development for anyone looking for a project.

See <http://web.usna.navy.mil/~bruninga/aprn.html>

In my opinion it is one thing that HAM radio has that cellphone users don't. We should exploit it for public service events!

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#### 14. [aprssi] Fwd: "The TopoTimes" <test@topozone.com>: A TopoZone Birthday Gift for You

From: N8UEVALH@aol.com  
Date: Sat, 2 Dec 2000 12:47:03 EST  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-122397-2000.12.02-11.59.02--lyris.aprssi@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

[Empty message body]

---

#### 15. [aprssi] Re: Cybiko 900 mhz data toy

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Sat, 02 Dec 2000 10:36:39 -0700  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-122398-2000.12.02-12.15.29--lyris.aprssi@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 08:40 AM 12/1/00 -0500, Keith Kotch blasted the following out into the ether:

>Don't know but bet Bob B. will have a couple of them under his Christmas  
>Tree to go along with the FRS radios for the Scouts! ;-) )  
>  
>Looks interesting but the range is such a limiting factor. Could see  
>applications for classrooms but not much else because of the range. For  
>personal comms it still seems like FRS is the way to go.

I wonder if we could use them as a remote base to connect from the front of your car to a tracker mounted in the trunk? It sure would be nice not to string a data cable.

Earl

Earl Needham, KD5XB      mailto:KD5XB@AMSAT.ORG  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

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#### 16. [aprssi] Re: Cybiko 900 mhz data toy

From: Mark Felhauer <sparkfel@primenet.com>  
Date: Sat, 02 Dec 2000 17:04:03 -0600  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-122495-2000.12.02-17.16.05--lyris.aprssi@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 11:36 AM 12/2/00, Earl Needham wrote:

> I wonder if we could use them as a remote base to connect from the  
> front of your car to a tracker mounted in the trunk? It sure would be  
> nice not to string a data cable.  
>  
> Earl

At \$99 to \$150 a pop (depending on where you buy them) it would be an awfully expensive way to avoid stringing 10 to 20 feet of cable...

Mark  
KC7BXS

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#### 17. [aprssi] Re: Auto-On GPS?

From: Ralph Milnes <milnes1@rcn.com>  
Date: Sat, 02 Dec 2000 18:17:16 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122496-2000.12.02-17.28.36--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On the Garmin units (I only have actually experience with the II+) you can force an auto power on condition by keeping the power button depressed -- don't let it pop back up after you press it down to turn it on. You can wedge something between the case and the button while it's down or out a rubber band over a button to keep it depressed. The more elegant (?) method would be to cobble up a metal clip that goes around the unit's body and has a detent over the button.

But note that back lighting requires subsequent re-presses of the on button (3 presses for 3 different levels), so that makes this kludge a little less appetizing if you want to run at night and see the display. While the unit will power back on with this trick, I don't think the back lighting will come back on automatically.

73,

Ralph, KC2RLM

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## 18. [aprssig] NWS SAME Bulletin gateway to APRS?

From: "Josh C." <jcrew1sc@hotmail.com>  
Date: Sun, 03 Dec 2000 04:22:14  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122543-2000.12.02-22.34.11--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In the past week I have noticed some comments being made regarding the use of APRS to communicate any watches or warnings issued by the NWS. This ability to do so is quite essential to all APRS users, Skywarn/ARES supporters or not. However it does not seem that we have found any automated means of communicating the NWS data onto APRS without having a person manually input the data onto the APRS channel. So here I propose this idea, why not monitor the local NWS Wx Radio channel for the SAME digital packet data and rebroadcast (locally) the SAME data (no pun intended) to APRS?

You guys that understand packet better than myself should check out the NWS website at <http://www.nws.noaa.gov/nws/same.pdf> there you will find the format of the SAME data. It appears to me that they are using a AFSK modulation scheme (As we do) running around 520.83 bits/second. Why can't we have a radio (and TNC) monitoring the local WX Radio channel, and when the NWS broadcasts a watch or warning? then you can grab that data, format it however you may like and rebroadcast the information automatically to the APRS channel, alerting users of the current situation?  
As far as monitoring the NWS SAME broadcast.. if the regular vanilla 1200 baud TNC can't decode it? why not use the software (soundcard) tnc programing that is starting to be used?

Just an idea,  
Josh Caldwell KE4VFD

---

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## 19. [aprssig] RE: NWS SAME Bulletin gateway to APRS?

<LYR19806-122543-2000.12.02-22.34.11--ssbrockw#swbell.net@lists.tapr.org>

From: Steve Brockway <ssbrockw@swbell.net>  
Date: Sun, 03 Dec 2000 00:13:08 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122574-2000.12.03-00.30.06--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> check out the NWS website at <http://www.nws.noaa.gov/nws/same.pdf>

Better yet, check it out at <http://www.nws.noaa.gov/nwr/same.pdf>.

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## 20. [aprssig] Re: NWS SAME Bulletin gateway to APRS?

From: "Dale Huguley" <[kg5qd@earthlink.net](mailto:kg5qd@earthlink.net)>  
Date: Sun, 3 Dec 2000 11:51:49 -0000  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-122591-2000.12.03-06.04.56--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-122591-2000.12.03-06.04.56--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Josh Caldwell KE4VFD Said:

>However it does not seem that we have found any  
> automated means of communicating the NWS data onto APRS without having a  
> person manually input the data onto the APRS channel.

?? So the 10 megabytes a year the WXSVR server puts out doesn't count?

The only thing converting the SAME data to APRS will buy us is the county outlines lit up- we are well beyond that now.

73 de kg5qd Dale

---

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---

## 21. [aprssig] RE: NWS SAME Bulletin gateway to APRS?

From: Robert Boeckman <[machead@black-hole.com](mailto:machead@black-hole.com)>  
Date: Sun, 3 Dec 2000 07:55:26 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-122611-2000.12.03-08.06.22--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-122611-2000.12.03-08.06.22--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

At 12:00 AM -0500 12/3/2000, TAPR APRS Special Interest Group digest wrote:

>In the past week I have noticed some comments being made regarding the use  
>of APRS to communicate any watches or warnings issued by the NWS. This  
>ability to do so is quite essential to all APRS users, Skywarn/ARES  
>supporters or not. However it does not seem that we have found any  
>automated means of communicating the NWS data onto APRS without having a  
>person manually input the data onto the APRS channel. So here I propose  
>this idea, why not monitor the local NWS Wx Radio channel for the SAME  
>digital packet data and rebroadcast (locally) the SAME data (no pun  
>intended) to APRS?

I have been working on this project for the last 6 months. I am almost there. What I need is a sample of a APRS WX warning packet. My prototype software is called MacEAR.

MacEAR connects the EAR to a Macintosh via the serial port, monitors broadcasts from the National Weather Service and translates the coded data message into plain text.

With MacEAR you can:

Display the decoded text on the computer, or save the text to disk.

Send weather watches and warnings via E-mail automatically.

Send weather watches and warnings via Packet Radio automatically. (AX25)

Update a web page in real time.

APRS is not supported at this time. If anyone can inform me what Mac/WIN APRS needs to see for information to display the watch or warning please contact me off list at [machead@black-hole.com](mailto:machead@black-hole.com).

To see my work so far check out  
<<http://users.black-hole.com/users/tardis/macear.html>>

Rob n0ong

---

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---

## 22. [aprssig] Re: NWS SAME Bulletin gateway to APRS?

From: Bob Bruninga <bruninga@usna.edu>  
Date: Sun, 3 Dec 2000 12:32:55 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122638-2000.12.03-11.44.25--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> > However it does not seem that we have found any automated means of  
> > communicating the NWS data onto APRS...

Dale responded: > ?? So the 10 megabytes a year the WXSVR server puts out  
> doesn't count? The only thing converting the SAME data to APRS will buy  
> us is the county outlines lit up- we are well beyond that now.

Hummh...This is not a criticism, it is an observation (I hope I am not  
misinformed), but yes, you are well beyond that now, but  
you have also left 98% of everyone else in the dust. Back when the  
counties were output, EVERYONE saw county warnings. It was BUILT-IN to  
every copy of APRSdos and WinAPRS and possibly other programs. Now your  
output does not include the counties anymore so 98% of us see nothing  
unless we run WinAPRS AND download the 10,000 ZONE FILES.

I suspect that fewer than 2% of APRS operators have done that. Thus, we  
have a great system that serves the few, yet ignores the masses. Thus,  
we still have the other 98% that would like to see the counties change  
color when there is a storm warning. The only way to do that now is the  
manual way...

I am all for what you have done to automate WX. But I don't like the fact  
that it obsoleted 98% of all users and denies them these warnings. Even  
if I ran WinAPRS, I would probably never download 10,000 files just to see  
the fine detail it represents.

HERE is the solution as I see it.

1) SOMEONE write a simple routine to scan the 10,000 files and extract the  
centroid and standard deviation of all points. Now we have one point per  
ZONE instead of a map.

2) Then SORT these by state and send me 50 files of just these single  
values per zone. I will then hand massage them into a file of WARNING  
CIRCLES. and merge them back into a single small file.

3) I will then add these circles to ALL aprs DOS maps so that EVERY  
APRSdos user will always see these warnings again like they used to.

4) ALSO WinAPRS and any other APRS program can use this single CIRCLE  
file to build into their code as well. Thus, everyone sees ZONES always,  
at least to the circle resolution.

Users that want to see the exact ZONE, can download the original 10,000  
files and continue operating as now. Thus, everyone sees something, and  
those that need the detail can go to the trouble to mess with the 10,000  
files themselves.

Any volunteers to generate the CENTROID FILE?

Bob

---

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---

## 23. [aprssig] Re: NWS SAME Bulletin gateway to APRS?

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Sun, 03 Dec 2000 10:50:06 -0700

To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-122643-2000.12.03-12.03.52--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 12:32 PM 12/3/00 -0500, Bob Bruninga blasted the following out into the ether:  
><snip>  
>Now your output does not include the counties anymore so 98% of us see  
>nothing unless we run WinAPRS AND download the 10,000 ZONE FILES.  
><snip>  
>ANY volunteers to generate the CENTROID FILE?

Uh -- first, where do I download these 10,000 zone files? Once I get those, I MIGHT give it a shot...

Earl

Earl Needham, KD5XB      mailto:KD5XB@AMSAT.ORG  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

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---

## 24. [aprssid] Re: NWS SAME Bulletin gateway to APRS?

From: "Mark" <na4v@hom.net>  
Date: Sun, 3 Dec 2000 13:18:13 -0500  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-122648-2000.12.03-12.30.29--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Dale, it might be a good idea to republish your website URL that contains the maps...

Mark, NA4V

----- Original Message -----

From: "Dale Huguley" <kg5qd@earthlink.net>  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Sent: Sunday, December 03, 2000 6:51 AM  
Subject: [aprssid] Re: NWS SAME Bulletin gateway to APRS?

> Josh Caldwell KE4VFD Said:  
>  
> >However it does not seem that we have found any  
> > automated means of communicating the NWS data onto APRS without having a  
> > person manually input the data onto the APRS channel.  
>  
> ?? So the 10 megabytes a year the WXSVR server puts out doesn't count?  
>  
> The only thing converting the SAME data to APRS will buy us is the county  
> outlines lit up- we are well beyond that now.  
>  
> 73 de kg5qd Dale  
>  
>  
> ---  
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>  
>

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---

## 25. [aprssid] Re: NWS SAME Bulletin gateway to APRS?

From: Robbie Robertson <mwrrobertson@mediaone.net>  
Date: Sun, 03 Dec 2000 12:21:34 -0600  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssid@lists.tapr.org>

Message-ID: <LYR842-122649-2000.12.03-12.34.03--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

Earl Needham wrote:

```
>
> At 12:32 PM 12/3/00 -0500, Bob Bruninga blasted the following out into the
> ether:
> ><snip>
> >Now your output does not include the counties anymore so 98% of us see
> >nothing unless we run WinAPRS AND download the 10,000 ZONE FILES.
> ><snip>
> >Any volunteers to generate the CENTROID FILE?
>
> Uh -- first, where do I download these 10,000 zone files? Once I get
> those, I MIGHT give it a shot...
>
> Earl
>
```

These comments seem to be directed to everybody, but very confusing. I would like it to be the way it use to be so I can show potential users how we can show warnings by surrounding counties. Centroid? 10,000 counties? Just for Illinois, I have all of them, but even though they are in the proper folders, nothing lights up anymore..

I hope when this is ironed out, layman's instructions will be included. I am not a programmer remember, so speak to me and others like me in that manner, :-) Thanks

Robbie wa9inf

---

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## 26. [aprssid] WinAprs Unhandled Exceptions

From: Bill Diaz <billdiaz@megsinet.net>  
Date: Sun, 3 Dec 2000 13:23:42 -0600  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-122654-2000.12.03-13.35.05--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

Several stations have reported unhandled exceptions with WinAprs this morning.

These exceptions are likely caused by NWS-WARN messages that can cause the map to be redrawn. The exception may occur during redraw when a packet of an unknown type is encountered during redraw.

I have some beta code running in AFilter that delays the relay of packets for 3 seconds after a NWS-WARN packet is received. I did not experience the unhandled exceptions after receiving NWS-WARN packets. I expect to have a new AFilter version available in the next few days that will include this and other related features.

Apparently, WinAprs has NO exception handling code. WinAprs can lock up (without reporting an exception) after viewing the position list and then closing the list. Some of the icons are placed on the map during redraw and before lockup. However, the map toolbar on the right, and the status bars on the bottom do not appear before WinAprs locks up.

The only viable, long term solution to these problems is for the WinAprs authors to include exception handling code. Virtually every viable Windows application sold today includes exception handling code of some sort. Try, except block exception code handling is the norm.

It may be possible to operate WinAprs without encountering unhandled exceptions if maps are not displayed. Minimized maps may still encounter the exceptions.

Bill KC9XG

Display current vehicle location :  
<http://www.findu.com/cgi-bin/find.cgi?KC9XG-14>

---

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## 27. [aprssid] eTrex...

From: "Mike Yetko" <myetsko@insydesw.com>  
Date: Sun, 3 Dec 2000 14:27:32 -0500  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-122655-2000.12.03-13.40.56--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Well, I did it. Picked up an eTrex for my son. I already have a GPS12 and it's really a neat unit. My son saw it and coveted it greatly, and I figured if I didn't find him one I was in trouble, so I picked up an eTrex. It will be his Christmas present.

But I suppose I just HAVE to test it, to make sure it will be perfect for Christmas, right???

Blue Hills has connectors or even full cables, so I've been told, to interface to it. So that's one less worry. Grammy can provide that.

But I have to say, the eTrex is a nifty little unit. And I mean little. And I mean so nifty, I want one too!!

I also see Garmin ALREADY has updated firmware for the thing to add satellite display as in their other units...

Anyone using the eTrex for APRS?

Mike

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## 28. [aprssid] Re: eTrex...

From: "Christopher E. Phelps" <pcel@uswest.net>  
Date: Sun, 3 Dec 2000 13:42:30 -0700  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-122687-2000.12.03-14.54.14--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I have used it for my bicycle mobile, and it works great. Ni-mh batteries give me the best performance on the long rides, having the data cable connected uses more current. it seems very accurate when I look at the maps when I get back.  
73s Chris

---

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## 29. [aprssid] Re: NWS SAME Bulletin gateway to APRS?

From: "Dale Huguley" <kg5qd@earthlink.net>  
Date: Sun, 3 Dec 2000 22:14:05 -0000  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-122707-2000.12.03-16.25.43--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Earl the Clovis said:

> Uh -- first, where do I download these 10,000 zone files? Once I  
get  
> those, I MIGHT give it a shot...  
>  
The file is made already-

links to the files are from  
<http://home.earthlink.net/~kg5qd>

73 de kg5qd Dale

---

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### 30. [aprssid] Re: WinAPRS updates ???

From: "VE2EQ" <[ve2eq@amsat.org](mailto:ve2eq@amsat.org)>  
Date: Sun, 3 Dec 2000 16:21:31 -0800  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-122713-2000.12.03-18.33.32--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-122713-2000.12.03-18.33.32--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

I am just curious... the last version of WinAPRS (2.4.7) was released quite a while back. Are there any planned updates in the works?

Bruno Haineault, KF6QDP/VE2EQ  
Oceanside, California  
ITU: DM13ie

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### 31. [aprssid] Re: [aprshelp] IGATE info

From: Jamie Hutches <[jmhutches@Harding.edu](mailto:jmhutches@Harding.edu)>  
Date: Sun, 03 Dec 2000 22:21:07 -0600  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>, Mark Sproul <[msproul@jove.rutgers.edu](mailto:msproul@jove.rutgers.edu)>  
Message-ID: <[LYR842-122730-2000.12.03-22.28.09--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-122730-2000.12.03-22.28.09--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Ok, I just got my APRS server, SEARCY (N5HU) on a LAN with firewalled access to the internet. I need to know what I need software-wise to set this digi as a IGATE. It is a 486, 16 meg ram, Win95.

I am currently using WinAPRS 2.4.7 (registered) on there, and have Echo packets to internet option selected and have it connected to the APRS Telnet feed on port 23. I am not sure if you can send packets to the Inet on the port 23 server or not.

Any help would be great.

Thanks,

Jamie Hutches, KD5G0B

Owner: N5HU (Searcy) digi

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---

### 32. [aprssid] Re: NWS SAME Bulletin gateway to APRS?

From: [RMckni8527@aol.com](mailto:RMckni8527@aol.com)  
Date: Mon, 4 Dec 2000 01:41:51 EST  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-122756-2000.12.04-00.54.28--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-122756-2000.12.04-00.54.28--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

I just downloaded all the maps and files that have been referenced here as "the 10,000 files for NWS wx warnings". Unfortunately, the instructions on the download page seem to indicate that you use the "first two letters" of the filenames inside the archive as the directory to extract the files to. What's up with that? Each archive may contain several, up to 6 different "first two letter" file names. So am I correct in my take on this whole wx warning thing that I can spend the next week creating directories and copying files hither and dither - why weren't all the files from a single 2-letter directory zip'ed into a recursive archive, and then all the archives made into one big download - for those of us who desire to install the entire set of maps? It seems so random - is there any sense to this? I understand some folks might only want their state, or their immediate area, but the filenames and directories still seem all out of whack. Some explanation may help out.

73's

Ray - WB3ABN

Kingston, WA

### 33. [aprssid] SAME Decoding and alerting via APRS

From: "Josh C." <jcrew1sc@hotmail.com>  
Date: Mon, 04 Dec 2000 06:57:46  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122757-2000.12.04-01.09.50--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I posted an idea the other day about using the SAME data off a local WX Radio channel to alert local APRS users of impending or occurring severe weather. It seems I failed to get my main ideas across, which created some of the confusion that ensued. Let me reassure everyone that I am not attempting to reinvent the wheel, and not leave any APRS users in the dark of any weather alerts. Here are my main points:

A. By decoding the real time watches and warnings off the local NWS WX Radio channel, we can eliminate the dependance on the commerical communications infrastructure to deliver automated wx watches and warnings. Almost everyone has experienced the failing of the commerical communications infrastructure when they have needed it the most (phones don't work, cable goes out, satellite tv goes dead when the Ku signal is blocked by overhead thunderstorms).

B. It does not use the NWS ZONE coding to alert the affected region (why reinvent the wheel?). Instead, the alerts being sent onto the LOCAL APRS channel are in the appropriate format to alert Dos/Mac/WinAPRS users. By using the term "local" I simply mean that the packets are limited to the range they can travel intentionally. They only digipeat as far as needed to alert the affected areas, thus keeping the APRS channel traffic load to a minimum.

C. Bulletins are also sent as well for everyone to read in plain text, I believe this would allow TH-D7 and D700 (and any other APRS platform available) users to find out where and what's going on. The main objective of this system is to alert EVERYONE in the LOCAL area that there is some severe weather in the neighborhood, from there onwards the appropriate local tactical actions can be taken (Skywarn / ARES nets can be activated etc).

And that my friends is simply the main objectives I wanted to communicate; using an existing medium (Wx Radio) to disseminate LOCAL, tactically crucial weather alert information that stays local, and does not clog up the APRS channel. By utilizing a system that ALL APRS users can be alerted with, and being dependent on a highly reliable source (Wx Radio) we can cut out the need to be dependant upon the commerical communications infrastructure. I believe that this is what the FCC intended to be the role of amateur radio, leading the way in self-reliant communication means, and not being reliant on the commerical communications infrastructure. This is an idea that if properly examined, pursued and implemented could save lives and property. Any comments or suggestions are welcomed.

Josh Caldwell, KE4VFD

---

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---

## 34. [aprssig] APRS Survey 2000 Results are in

From: Richard Parry <rparry@qualcomm.com>  
Date: Sun, 03 Dec 2000 23:12:20 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122758-2000.12.04-01.25.02--lyris.aprssig#tapr.org@lists.tapr.org>  
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APRS Survey 2000 Results are in!

The APRS survey was a big success, 930 hams from ALL 50 states and 176 from outside the US participated. You can look at the summarized results, but I think the real power of the database is being able to search for other hams with similar equipment and/or interests. For example, if you want to know who is using KPC TNCs or who is using the Peet Brothers Weather station, it is easy to find. Most hams gave their email address, so you can contact each other to share ideas etc. Thank you everyone for participating.

I do expect to have another survey in November of 2001. I hope we have a new President by then :)

<http://w9if.net/cgi-bin/aprssurvey/main.pl>

Rich Parry

---

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---

### 35. [aprssig] Re: NWS SAME Bulletin gateway to APRS?

From: "Dick Stanich" <dstanic@c2i2.com>  
Date: Mon, 4 Dec 2000 7:55:36  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122772-2000.12.04-08.07.16--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>The only thing converting the SAME data to APRS will buy us is the county outlines lit up- we are well beyond that now.

Dale is correct. The system presently in place, works. My concern would be... will a new system really benefit anyone? As we already see this info. with much more detail than SAME can provide.

Secondly, SAME broadcasts are of local nature. They are area specific. How much of this would find its way into the hub network? The application/technology sounds like fun to experiment with. But, re-design of the existing system is moot, if it provides any features of the system Dale now has in place.

Dick, KB7ZVA  
Southwest Arizona APRS Group

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### 36. [aprssig] Re: [aprshelp] IGATE info

From: Guy Story <kc5goi@tapr.org>  
Date: Mon, 4 Dec 2000 08:56:07 -0600 (CST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>, Mark Sproul <msproul@jove.rutgers.edu>  
Message-ID: <LYR842-122779-2000.12.04-09.07.32--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Jamie, you can send data into a APRS server on port 23. If you send data to a server that is running aprsD you may want to check into which ports are there to connect to. Soem support port 23 others it is 10151 or 10152.

73,

Guy Story  
KC5GOI  
kc5goi@tapr.org  
<http://www.kc5goi.net>

---

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---

### 37. [aprssig] Re: eTrex...

From: Alex <kg4ecv@earthlink.net>  
Date: Mon, 04 Dec 2000 10:46:10 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122781-2000.12.04-09.57.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

A lot of people use the Etrex for APRS. I use it with my TinyTrak. Garmin also has been very good at upgrading this unit. Every couple months there's an upgrade available that you can download into your unit. I wish Kenwood and other companies would allow for this kind of upgrade path. The addition of the satellite screen is a great improvement.

Since Garmin apparently sees it as being in their interest to invest time in upgrades, maybe we should ask them collectively to add upload of waypoints through the NMEA protocol. Looking at the changes log it seems to me that they add features and fix bugs that only could have gotten to them through user feedback.

73s,  
--Alex

Mike Yetesko wrote:

>  
> Anyone using the eTrex for APRS?  
>  
> Mike

---  
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---

### 38. [aprssig] Re: [aprshelp] IGATE info

From: "Dennis Hudson, N2LBT" <n2lbt@n2lbt.com>  
Date: Mon, 04 Dec 2000 11:07:33 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122784-2000.12.04-10.19.49--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 12/3/00 11:21 PM, "Jamie Hutches" <jmhutches@Harding.edu> wrote:

> Ok, I just got my APRS server, SEARCY (N5HU) on a LAN with firewalled access  
> to the internet. I need to know what I need software-wise to set this digi  
> as a IGATE. It is a 486, 16 meg ram, Win95.  
> I am currently using WinAPRS 2.4.7 (registered) on there, and have Echo  
> packets to internet option selected and have it connected to the APRS Telnet  
> feed on port 23. I am not sure if you can send packets to the Inet on the  
> port 23 server or not.  
> Any help would be great.  
> Thanks,  
> Jamie Hutches, KD5G0B  
> Owner: N5HU (Searcy) digi

Personally I would recommend using aprsd 2.1.4 for your I-Gate functions if you can run Linux. It will run literally for ever, and is the same software that the majority of full time I-Gates and first.aprs.net run. I would be happy to try to answer any questions if you decide to go this route, and there are many willing I-Gate operators that are also available that would probably prefer to see you running aprsd anyway. aprsd will allow you to connect to more than one server for redundancy. It will also allow you to give access to your local community to the aprs stream on your server, offloading the stress on first.aprs.net and second.aprs.net.

You can download aprsd and the documentation at <http://www.wa4dsy.net/aprs/>

So the long answer to your question is yes, port 23 will accept your relayed packets on some servers like first.aprs.net and second.aprs.net. Port 23 is the default unsecured telnet port, so some full function servers reserve this port for said access.

Dennis, N2LBT

---  
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---

### 39. [aprssig] Re: eTrex...

From: "Rich Beckwith" <Rich@dps.state.mo.us>  
Date: Mon, 04 Dec 2000 10:13:34 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122785-2000.12.04-10.25.08--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I wonder how many people have called and asked about waypoints for the StreetPilot. I have called at least twice to confirm that they weren't supported, and suggested this as a nice improvement. I will

end up purchasing a GPSMap162 for this reason.

---

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---

#### 40. [aprssig] Re: NWS SAME Bulletin gateway to APRS?

From: KC7ZRU - Casper <kc7zru@arrl.net>  
Date: Mon, 04 Dec 2000 09:18:23 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122786-2000.12.04-10.37.36--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>From the and to the FWIW department:

If it's of any help to those struggling to get these '10k' county files setup, I have a ZIP archive on my APRS page (section: NWS CWS info) with the complete setup, including directory structure, for South East Wyoming (754Kb). Even if you're not one of 'our locals' - it may be of use to download and install, following the instructions on the site, just to see how it's done. URL to my page is in the sig block below.

For 'us locals' in Wyoming, just unzip the archive into your WinAPRS directory, retaining the archived directory structure (check box in Winzip or the '-d' switch with pkunzip.exe). It worked quite well last I tried it. Also, for the xastir crowd, I'm using these same maps with xastir - works well.

For everyone outside my area - it may be wise to unzip this archive into a 'temp' folder - examine what's what and where it goes and follow the example. No sense cluttering up your WinAPRS install.

If you've unzipped my archive into your WinAPRS folder and you're not 'from these parts', once you've seen what's up and how it's done, delete the information not pertinent to your area. I seem to recall reading that there's a limit to how many counties can be 'handled' by WinAPRS - I don't remember what that limit is or even if it's in the hundreds or thousands, but it's there!

73

--

```

/\ /\ /\ /\ /\ /\ /\ /\ /\ /\ /\ /\ /\ /\ /\ /\ /\ /\ /\ /\ /\ /\
| No Longer in Laramie      | Now in Casper      |
| CARC Repeater 146.640(-) | DN62uu      |
| ICQ/ICU# 82711454      | eGroups.com/RM-APRS |
| "The Dungeon" online at http://go.to/KC7ZRU |
+-----+

```

---

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---

#### 41. [aprssig] Limiting number of stations reported?

From: "Bryan Jarvis" <bjarvis@metronewsservice.net>  
Date: Mon, 4 Dec 2000 10:29:13 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122787-2000.12.04-10.41.16--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi, Folks...

I run WinAPRS v2.4.6

I am only connected via TCP/IP currently, until I get a chance to set up a 2-meter rig.

Is there a way to have WinAPRS ignore stations not in my area - say outside a 100-mile radius. I know that my Kenwood D700 can do this.

The reason I bring this up is I have seen it where WinAPRS reports that it is out of space for additional

stations. That's OK, of course, until it is a station  
in my vicinity ;)

Thanks in advance,

Bryan

```
=====
Bryan Jarvis          KD5LBK          vader1@flash.net
Metro News Service, Inc.      bjarvis@metro-news.com
    phone: (972) 768-2002
    fax: (972) 436-7553
alpha pager: (972) 209-1505 -or- text email to:
                                1614047@gte.pagegate.net
```

I have created a monster and given it life,  
a life which shall destroy me yet!

Want to find my truck?  
<http://www.findu.com/cgi-bin/find.cgi?kd5lbk-1>  
[Attachment: Bryan Jarvis (E-mail).vcf; text/x-vcard; 761 bytes]

---

## 42. [aprssig] Re: Limiting number of stations reported?

```
From: "Jeff Brenton" <jeffb@espi.com>
Date: Mon, 4 Dec 2000 10:47:39 -0600
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: "aprssig" <aprssig@tapr.org>
Message-ID: <LYR842-122793-2000.12.04-11.01.56--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

You can configure WinAPRS to handle more stations; see the help file about  
"memory.txt", which is most easily done by using Internet Explorer or  
Netscape to read the .htm file in the \winaprs\docs directory.

For limiting the number of stations heard, you need to use AFILTER in  
between WinAPRS and the internet connection. It will allow you to configure  
exactly what range you want to see. One place to get this is:

<http://www.cyberhighway.net/~tateb/afilter.html>

Jeff Brenton  
President,  
Engineered Software Products, Inc  
<http://espi.com>  
Questionable web page: <http://dididahdahdidit.com>

Liberalism grants you the freedom to advocate any idea\*.  
\* Please see <http://www.dididahdahdidit.com/except.php> for a  
current list of exceptions

---

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---

## 43. [aprssig] VIRUS WARNING! Re: [aprsplus] Snowwhite and the Seven Dwarfs - The REAL story!

```
From: Dave Kaplan <dkaplan@steffeninc.com>
Date: Mon, 04 Dec 2000 10:57:28 -0600
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-122795-2000.12.04-11.09.26--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

I just received the below e-mail. It has the "W95.Hybris.gen" virus  
attached to it that Norton caught.

At 11:49 AM 12/4/00 -0500, you wrote:  
>Today, Snowwhite was turning 18. The 7 Dwarfs always where very educated and  
>polite with Snowwhite. When they go out work at mornign, they promissed a  
>\*huge\* surprise. Snowwhite was anxious. Suddlently, the door open, and the  
>Seven  
>Dwarfs enter...

---

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---

#### 44. [aprssig] Re: Limiting number of stations reported?

From: Jonathan Kaplan <jonk@jskent.com>  
Date: Mon, 04 Dec 2000 09:06:05 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122799-2000.12.04-11.17.35--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I run Afilter 1.0 along with WinAPRS 247 on my NT server connected to an ADSL and a 2 mtr rig. I connect to Afilter's IP port from TCP/IP connections of WinAPRS. Afilter is exactly what you want.

At 10:29 AM 12/4/00 -0600, Bryan Jarvis wrote:

>Is there a way to have WinAPRS ignore stations not  
>in my area - say outside a 100-mile radius. I know  
>that my Kenwood D700 can do this.

73  
Jonathan K06XS

---  
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---

#### 45. [aprssig] Re: Limiting number of stations reported?

From: Guy Story <kc5goi@tapr.org>  
Date: Mon, 4 Dec 2000 11:13:19 -0600 (CST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122800-2000.12.04-11.24.36--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bryand, I do not hve the url handy but Afilter will let you define a radius like you want. It is written by Bill Diaz and works nicely. It is also a breeze to install and config.

73,

Guy Story  
KC5GOI  
kc5goi@tapr.org  
<http://www.kc5goi.net>

---  
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---

#### 46. [aprssig] RE: Limiting number of stations reported?

From: "Bryan Jarvis" <bjarvis@metronewsservice.net>  
Date: Mon, 4 Dec 2000 11:15:26 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "'TAPR APRS Special Interest Group'" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122801-2000.12.04-11.28.49--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Thank you to everyone who responded so quickly!

I'll check out Afilter.

Bryan

=====  
Bryan Jarvis           KD5LBK           vader1@flash.net  
Metro News Service, Inc.       bjarvis@metro-news.com  
    phone: (972) 768-2002  
    fax: (972) 436-7553  
alpha pager: (972) 209-1505 -or- text email to:  
                                  1614047@gte.pagegate.net

I have created a monster and given it life,  
a life which shall destroy me yet!

Want to find my truck?  
<http://www.findu.com/cgi-bin/find.cgi?kd5lbk-1>

-----Original Message-----

From: Guy Story [mailto:kc5goi@tapr.org]  
Sent: Monday, December 04, 2000 11:13  
To: Bryan Jarvis  
Cc: TAPR APRS Special Interest Group  
Subject: Re: [aprssig] Limiting number of stations reported?

Bryand, I do not hve the url handy but Afilter will let you define a radius like you want. It is written by Bill Diaz and works nicely. It is also a breeze to install and config.

73,

Guy Story  
KC5G0I  
kc5goi@tapr.org  
<http://www.kc5goi.net>  
[Attachment: Bryan Jarvis (E-mail).vcf; text/x-vcard; 761 bytes]

---

#### 47. [aprssig] Re: VIRUS WARNING! Re: [aprsplus] Snowwhite and the Seven Dwarfs - The REAL story!

From: Doug Bade <doug@clecom.com>  
Date: Mon, 04 Dec 2000 12:19:30 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122802-2000.12.04-11.30.40--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

It may be coincidental, but I to received 2 in the last 3 days, same text different virus.. Norton stopped both... Traced to the offending ISP and sent to abuse @.... , It was addressed to my Network Solutions registered address....Interesting, Doug KB8GVQ

t 10:57 AM 12/4/00 -0600, Dave Kaplan wrote:  
>I just received the below e-mail. It has the "W95.Hybris.gen" virus  
>attached to it that Norton caught.  
>  
>  
>At 11:49 AM 12/4/00 -0500, you wrote:  
>>Today, Snowwhite was turning 18. The 7 Dwarfs always where very educated and  
>>polite with Snowwhite. When they go out work at mornign, they promissed a  
>>\*huge\* surprise. Snowwhite was anxious. Suddently, the door open, and the  
>>Seven  
>>Dwarfs enter...

---

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---

#### 48. [aprssig] Re: NWS SAME Bulletin gateway to APRS?

From: Alex <kg4ecv@earthlink.net>  
Date: Mon, 04 Dec 2000 12:49:03 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122804-2000.12.04-12.00.10--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

APRS was once seen as a great tool for local emergencies. I think we are forgetting this application of APRS sometimes with the introduction of add-ons that rely solely on the presence of the internet. I think these applications are great, but I really hate to rely on them during an emergency. Especially if the reliability of an Igate depends on whether or not it gets an unhandled exception.



Weather related emergencies usually go hand in hand with power outages, with outages of phone and cable networks soon to follow. I think it would be great if we would have a secondary source that we can use for APRS to get weather information, watches and warnings from. This could be from an EMMIN stream from a satellite or one of the (very few) VHF stations or from the SAME data disseminated through NOAA weather radio stations.

I think we shouldn't see a system that uses local SAME data as a redesign of the current system nor should we see it as competition of the current system. Perhaps we should consider it as an application that compliments the local APRS network. I for one would applaud any initiative and idea that improves the reliability and the availability of relevant information through APRS.

73s,  
--Alex

Dick Stanich wrote:

>  
> >The only thing converting the SAME data to APRS will buy us is the county  
> outlines lit up- we are well beyond that now.  
>  
> Dale is correct. The system presently in place, works. My concern would  
> be... will a new system really benefit anyone?  
> As we already see this info.  
> with much more detail than SAME can provide.  
>  
> Secondly, SAME broadcasts are of local nature. They are area specific. How  
> much of this would find its way into the hub network? The  
> application/technology sounds like fun to experiment with. But, re-design  
> of the existing system is moot, if it provides any features of the system  
> Dale now has in place.  
>  
> Dick, KB7ZVA  
> Southwest Arizona APRS Group

---  
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---

## 49. [aprssig] Re: VIRUS WARNING! Re: [aprsplus] Snowwhite and the Seven Dwarfs - The REAL story!

From: Doug Bade <doug@clecom.com>  
Date: Mon, 04 Dec 2000 13:16:21 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122808-2000.12.04-12.27.47--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Well as fast as I sent in my last comment about receiving the spam VIRUS, another one arrived at my address used on this sig.. So it looks like the sender is monitoring this SIG for Targets... I sent another ADMIN report to the ISP originating this one... a different ISP this time...

These viruses are real and arriving as executables, obviously do not execute.... Doug

---  
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---

## 50. [aprssig] Re: VIRUS WARNING! Re: [aprsplus] Snowwhite and the Seven Dwarfs - The REAL story!

From: kbrown@powerhouseproductions.com (Kevin Brown)  
Date: Mon, 4 Dec 2000 12:39:26 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122810-2000.12.04-12.50.33--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

this being the case, and having read the information regarding this very virus, it would be my recommendation to you...that you are already infected, or someone on this list.

The virus will respond to emails received by an infected machine

automatically...without ANY user intervention. This virus also monitors newsgroups feeds for updates and plugins for itself, and replies to inbound messages directly using pre-determined SMTP servers.

After sending THIS message, I am expecting to receive another copy of the virus, and when I do, a quick review of the actual message headers will reveal the internet identity of the infected machine, which I will post here.

----- Original Message -----

From: "Doug Bade" <doug@clecom.com>  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Sent: Monday, December 04, 2000 12:16 PM  
Subject: [aprssig] Re: VIRUS WARNING! Re: [aprsplus] Snowwhite and the Seven Dwarfs - The REAL story!

: Well as fast as I sent in my last comment about receiving the spam  
VIRUS,  
: another one arrived at my address used on this sig..  
: So it looks like the sender is monitoring this SIG for Targets...  
: I sent another ADMIN report to the ISP originating this one... a different  
: ISP this time...  
:  
: These viruses are real and arriving as executables, obviously do not  
: execute.... Doug  
:  
: ---  
: You are currently subscribed to aprssig as:  
kbrown@powerhouseproductions.com  
: To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org  
: Questions regarding the SIG go to the SIG administrator: wallou@tapr.org  
:

---

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Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

---

## 51. [aprssig] Re: VIRUS WARNING! Re: [aprsplus] Snowwhite and the Seven Dwarfs - The REAL story!

From: Doug Bade <doug@clecom.com>  
Date: Mon, 04 Dec 2000 13:54:47 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122812-2000.12.04-13.06.43--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I do not think so as I have a virus scanner running real time...on both machines involved, and as I said the first one went to my internic registered address, one I never use or poll as it does not exist as mail box, it is only a forward point.. Also I never executed either , Norton caught it on the way in and never even saved it.. I do not use Outlook, and exe's do not execute as a matter of course.. Thanks for the input though, but I think not the case. here...

BTW they were 2 different exe's attached... Doug

At 12:39 PM 12/4/00 -0600, you wrote:  
>this being the case, and having read the information regarding this very  
>virus, it would be my recommendation to you...that you are already infected,  
>or someone on this list.  
>  
>The virus will respond to emails received by an infected machine  
>automatically...without ANY user intervention. This virus also monitors  
>newsgroups feeds for updates and plugins for itself, and replies to inbound  
>messages directly using pre-determined SMTP servers.  
>  
>After sending THIS message, I am expecting to receive another copy of the  
>virus, and when I do, a quick review of the actual message headers will  
>reveal the internet identity of the infected machine, which I will post  
>here.  
>  
>  
>----- Original Message -----  
>From: "Doug Bade" <doug@clecom.com>  
>To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
>Sent: Monday, December 04, 2000 12:16 PM

>Subject: [aprssig] Re: VIRUS WARNING! Re: [aprsplus] Snowwhite and the Seven  
>Dwarfs - The REAL story!

---

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---

## 52. [aprssig] Re: Taming of the Shrewer uhhh SIG????/deaf D7a????!!!!

From: "Henk de Groot" <henk.de.groot@hetnet.nl>  
Date: Mon, 4 Dec 2000 20:07:35 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122815-2000.12.04-13.23.01--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hello Charles,

You can try what you want, but this is a bug in the Kenwood. Bother your supplier with it to have it fixed. Note that in this state that it doesn't show packets it also doesn't transmit beacons anymore. Try pushing the BCON button while in this "deaf" state and you will see that the unit does not transmit any beacon anymore. This is very annoying if the unit is used as a tracker. It is easy to reproduce and Kenwood reproduced the problem already in Japan.

I have confirmation that this happens on a TH-D7E v1.0, TH-D7E v2.0 and TH-D7A. I have not heard about the TH-D7A(G), neither positive or negative (I assume negative).

An intermediate fix is to find out who in your area is transmitting long UI frames and make him stop doing that. The DIGI\_NED digipeater has a "kenwood\_mode:" which truncates packets to a safe length.

Kind regards,

Henk.

Attached you will find a text file with messages that appeared before and give very detailed information about this problem. Sorry about the ZIP format, I first send it as plain-text but Lyriss would not accept such a big posting (I tried, thats why this answer is a little late)!  
[Attachment: thd7.zip; application/x-zip-compressed; 5,978 bytes]

---

## 53. [aprssig] Re: [aprshelp] IGATE info

From: John Gorkos <jgorkos@chocho.san-carlos.rms.slb.com>  
Date: Mon, 04 Dec 2000 13:48:37 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122819-2000.12.04-14.00.29--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

"Dennis Hudson, N2LBT" wrote:

>  
> On 12/3/00 11:21 PM, "Jamie Hutches" <jmhutches@Harding.edu> wrote:  
> > as a IGATE. It is a 486, 16 meg ram, Win95.  
> > I am currently using WinAPRS 2.4.7 (registered) on there, and have Echo  
> > packets to internet option selected and have it connected to the APRS Telnet  
> > Thanks,  
> > Jamie Hutches, KD5G0B  
>  
>  
> Personally I would recommend using aprsd 2.1.4 for your I-Gate functions if  
> you can run Linux. It will run literally for ever, and is the same software

I second the motion to use Linux for a full-time dedicated I-Gate. In the Real World, the most reliable products are the ones that do one thing and do it well. WinAPRS, for good and bad, does a LOT of things admirably, but none of them EXTREMELY WELL. Dale's aprsd does inet gatewaying EXTREMELY well, but it doesn't do anything else. IMHO, gateway machines shouldn't even have monitors attached to them, that way, there is no temptation to use them for other things and run the risk of downing the IGATE.

I may be a little more of an uptime zealot than most when it comes to APRS<->internet connectivity, but I think you'll be disappointed by the amount of time you spend resetting and tweaking your WinAPRS inet gateway. As we add more and more Tiny-Web-Page capabilities, people will come to rely more and more on inet gateways, and the demand from your local users for uninterrupted uptime will grow. Consider that when

you make you OS choice.

BTW, I am available for elmering via email about using Linux with APRS.  
Sooner or later, I'll put up a little page on the kcaprs.org web page  
about how I do it.

John Gorkos  
AB000

---

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---

## 54. [aprssi] Question for the group

From: Peter Anderson <panderson@CenterPartners.com>  
Date: Mon, 4 Dec 2000 12:59:58 -0700  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-122821-2000.12.04-14.15.15--lyris.aprssi@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I was setting up multiple stations (Mobile, chestpack, home, ect) My  
question to the group is: Is there a set of -X that is set as a guide for  
call signs? Such as N0WRE-1 for car N0WRE-2 for chest pack? If anyone has  
any ideas to if such a list exists let me know off the list.

Peter Anderson  
N0WRE  
Position Work:  
40 31 33N  
105 02 53W  
Position Home:  
40 23 32N  
105 04 07W

---

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---

## 55. [aprssi] Re: Limiting number of stations reported?

From: KC7ZR - Casper <kc7zru@arrl.net>  
Date: Mon, 04 Dec 2000 13:38:14 -0700  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssi@lists.tapr.org>,  
aprssi <aprssi@tapr.org>  
Message-ID: <LYR842-122825-2000.12.04-14.49.36--lyris.aprssi@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Wow, Thanks for the THWACK Jeff!

Cyberhighway is no-more, maybe thankfully. They were bought out by  
another outfit and the URL for AFilter has changed - least the one for  
my site that is.

New URL: <http://www.fiberpipe.net/~tateb> - then follow the link in the  
contents window to "AFilter for APRS"

or, tolerate a 10 second 'click-out-able' ad and use the keystroke saver  
of: <http://go.to/kc7zru>

Do note: that if Bill Diaz is online, you can get AFilter from the  
author's system at: <ftp://ftp.billdiaz.dynip.com/outgoing> - again, only  
available if he's online and bandwidth is limited.

73!

Jeff Brenton wrote:

```
>  
::snip::  
>  
> For limiting the number of stations heard, you need to use AFILTER in  
> between WinAPRS and the internet connection. It will allow you to configure  
> exactly what range you want to see. One place to get this is:  
>  
> http://www.cyberhighway.net/~tateb/afilter.html  
>
```

```

| No Longer in Laramie | Now in Casper |
| CARC Repeater 146.640(-) | DN62uu |
| ICQ/ICU# 82711454 | eGroups.com/RM-APRS |
| "The Dungeon" online at http://go.to/KC7ZRU |
+++++

```

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From: David VanHorn <dvanhorn@cedar.net>  
Date: Mon, 04 Dec 2000 16:14:06 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122829-2000.12.04-15.32.19--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I'm also looking to find a way to edit .TXT files on the palm.

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

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From: Zachary Michael <kb9uqq\_2000@yahoo.com>  
Date: Mon, 04 Dec 2000 17:46:14 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122837-2000.12.04-16.56.19--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

73's

<http://www.findu.com/find.cgi/kb9uqq-10>

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From: Ralph Fowler <rwf@bsrg.org>  
Date: Mon, 04 Dec 2000 17:58:58 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Message-ID: <LYR842-122839-2000.12.04-17.12.09--lyris.aprssid@lists.tappr.org>  
Rendered body type: text/plain

Not if it puts any BBS traffic (or BBS access or messages) on APRS frequencies!!!!!!!!!!!!  
They are loaded enough as it is already.  
The day it happens here will be the day I restrict my digis to UI frames only and no connects.  
"Regular" packet BBSs are almost all gone anyway. The Internet has killed them

At 05:46 PM 12/4/00 -0600, you wrote:

>Hi Gang,  
>I don't know if this has already been thought of, but would a Packet  
>Radio on 145.010 MHz to APRS 144.390 MHz backbone be useful? It could  
>be used to relay messages from regular packet to APRS users. We could  
>also have a way to access BBS systems through APRS via these  
>backbones.  
>73's  
>--  
>Thanks,  
>Zachary Grant Michael, KB9UQQ,

---

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---

## 59. [aprssid] RE: FT-8500 died - A resolution

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Mon, 04 Dec 2000 17:02:20 -0600  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tappr.org>  
Cc: glittle@awod.com  
Message-ID: <LYR842-122840-2000.12.04-17.15.19--lyris.aprssid@lists.tappr.org>  
Rendered body type: text/plain

Finally, I had some time to pull apart my FT-8500 (with it's 18 case screws), which failed the day before my Thanksgiving trip. On advice from Glenn Little on the SIG and David (KA0JDN) of the Burghardt Amateur Radio Center Service Department, I disconnected the internal battery of the FT-8500 by carefully unsoldering it. After partially re-assembling the unit I was able to power it on again. Although I suspected the battery, since it was well below 2 volts, their reassurances gave me the extra push to go ahead and unsolder it.

My hat's off to both David and Glen. Thanks.

Now I need to acquire a new battery for the FT-8500. Aside from ordering one from Yaesu, does anyone have any other suggestions for finding a replacement battery? I assume it's a standard 3 volt lithium cell with solder tabs. A thought I had, since this is the 2nd battery to fail on this unit, is (if I have clearance) to solder in a lithium coin battery holder, like a Radio Shack 270-430.

My Thanksgiving trip APRS-wise was not a bust, though. I threw together a tracker with my TH-D7 & Garmin 12XL. Although this didn't give me mapping and messaging capability of a full mobile WinAPRS station, it was serviceable. Since my destination was the beautiful island city of Minocqua, Wisconsin, the use of APRS was limited to metro Minneapolis/St. Paul anyway. I started picking up stations just south of Shakopee on 169 and could hear stations all the way to Taylor's Falls, on 8.

What I did notice in Minneapolis was that there appear to be several redundant digipeats going on. In one instance I was digipeated 5 times (in about 2 seconds) with a path of relay, wide. Sounds to me like a few locals have digipeat turned on using their home stations. Maybe some elmering is in order or am I missing some dynamic here?

Anyhow, we had APRS, we had turkey, and my FT-8500 is working.

73,

Mark  
KC7BXS

---

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---

## 60. [aprssig] Fujitsu Palmtop Poqet PC Plus

From: Dale Blanchard <bolero@accessnv.com>  
Date: Mon, 04 Dec 2000 15:09:51 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122841-2000.12.04-17.22.00--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

These are at starsurplus.com . Looks like they may be ok for  
mobile/portable dos machines. \$139.00

---

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---

## 61. [aprssig] Re: Packet on 145.010 to APRS

From: WA8LMF1@aol.com  
Date: Mon, 4 Dec 2000 18:09:55 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122842-2000.12.04-17.24.02--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In a message dated 12/4/2000 2:53:45 PM Pacific Standard Time,  
kb9uqq\_2000@yahoo.com writes:

<< I don't know if this has already been thought of, but would a Packet  
Radio on 145.010 MHz to APRS 144.390 MHz backbone be useful? >>

I don't think so. Filling the 144.390 APRS frequency with connect attempts  
from conventional packet stations that will never get responded to (APRS  
doesn't use connected packets) will just clog the channel and increase the  
number of collisions with APRS UI packets.

<< We could  
also have a way to access BBS systems through APRS via these  
backbones. >>

Dumps of BBS directory listings or messages which produce transmissions of  
paragraphs of text at a time is counter to the line-at-a-time transmission  
approach of APRS.

(The mindset of data transmission on APRS is more analogous to  
one-line-at-a-time display pagers or cell-phone SMS - Short messaging service)

---

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---

## 62. [aprssig] RE: Question for the group

From: "Travis J. Maclay" <travis@btea.org>  
Date: Mon, 4 Dec 2000 18:36:52 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "TAPR SIG" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122844-2000.12.04-17.48.55--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Maybe this will help. This is from my archives from a while back.

73s  
Travis

> On Fri, 17 Mar 2000, Horzepa, Stan wrote:  
>  
> > There is no numbering protocol for SSIDs. Attempts to develop an SSID  
> numbering protocol were attempted in the past, but never caught on. You  
> may find some agreement on SSID-usage at the local level, but beyond  
> that, there is no agreement. >  
>  
> Some common usages are:  
>  
> -7 for the Kenwood THD7 HT  
> -8 for your mobile kenwood if you also have the -7 in use, else -7  
> -9 in general for your mobile

>  
> -6 I like to use for portable or non-home station ops  
>  
> Just some ideas...

---

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---

### 63. [aprssig] Re: Packet on 145.010 to APRS

From: Zachary Michael <kb9uqq\_2000@yahoo.com>  
Date: Mon, 04 Dec 2000 18:40:26 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122845-2000.12.04-17.52.53--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

OK. Maybe leave out the BBS systems. But the messages going from packet to APRS would not require stations to be connected. We just make up some special software that picks the station the message is being sent to and sends just a regular old APRS message. There is no connection required, except on the Packet frequency. And even that would never get transmitted on the APRS frequency.

--

Thanks,  
Zachary Grant Michael, KB9UQQ,  
KB9UQQ-9, KB9UQQ-10  
E-Mail: kb9uqq@tawg.org  
TAWG Coordinator  
<http://www.tawg.org/>  
Zach's Homepage  
<http://www.kb9uqq.net/>  
Zach's APRS Webpages  
<http://www.aprsinindiana.cjb.net/>  
Find Zach... Wherever he's at.  
<http://www.findu.com/find.cgi/kb9uqq-9>  
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<http://www.findu.com/find.cgi/kb9uqq-10>

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---

### 64. [aprssig] Re: Packet on 145.010 to APRS

From: Jeff King <jeff@aerodata.net>  
Date: Mon, 04 Dec 2000 19:47:03 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122851-2000.12.04-18.53.29--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Sure it would be useful.

Lots of people don't want to sit on a APRS frequency, but might want there position known on APRSSERVE. A crossband digi would suit their purpose well... gating the occasional posit over to 144.39. With NOS, you actually could make it one way, so errant users on 144.39 couldn't go out to 145.01 and connect to BBS's, which others have already pointed out is not to wise. Lots one can do if they are willing to think outside the box.

-Jeff

---

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---

### 65. [aprssig] RE: FT-8500 died - A resolution

From: "Mike Yetko" <myetsko@insydesw.com>  
Date: Mon, 4 Dec 2000 19:43:33 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: <glittle@awod.com>  
Message-ID: <LYR842-122852-2000.12.04-18.57.00--lyris.aprssig#tapr.org@lists.tapr.org>



Rendered body type: text/plain

I would just solder in a 'generic' coin cell.

The problem with a lot of manufacturers is that the batteries have a certain shelf life. When they build the units, they allocate a certain number of parts for 'repair' and customer parts orders.

What happens with batteries is they start failing... But the batteries pulled from the depot are the same batteries put back when the units were built. Since most units run the batteries at currents to low as to be near shelf life, the replacement batteries only last a year or so, until the parts inventory cycles through to a new order.

I've replaced some 'oem' cells, and only had them last 2 years or less. Now I just go buy a generic coin cell. I use the 'brush on flux' and carefully tack on two wires. Then put a single wrap of electrical tape around it to make sure it's insulated. THEN tack it in.

Oh, sometimes I might use something like a resistor lead instead of wire to tack to the cell, IF it looks like I can easily place it in there and 'emulate' the original mounting. But ALWAYS remember to insulate the cell. You won't be putting it in as mechanically secure as the original, and you don't want it inadvertently touching something it shouldn't.

Mike

---

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---

## 66. [aprssig] RE: FT-8500 died - A resolution

From: "Robert Donnell" <kd7nm@pugetsound.net>  
Date: Mon, 4 Dec 2000 17:37:44 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122854-2000.12.04-19.49.50--lyris.aprssig@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi Mike and all,

Soldering to lithium cells should be strongly discouraged - you have a high probability of popping the seals due to overheating. I believe there are health risks associated with doing so also. The major manufacturers (of the cells) use spot-welding of (usually) two points to avoid raising the temperature of the cell into the hazardous range. That, and automation would keep people's faces away from high hazard zones. My personal preference is to locate cells with tabs pre-welded, solder wires to those, then slide the cell into a short length of appropriately sized heat shrink tubing and shrink it. I've seen cells packaged this way at the local electronics store.

-----Original Message-----

From: bounce-aprssig-17768@lists.tapr.org  
[mailto:bounce-aprssig-17768@lists.tapr.org] On Behalf Of Mike Yetzko  
Sent: Monday, December 04, 2000 4:44 PM  
To: TAPR APRS Special Interest Group  
Cc: glittle@awod.com  
Subject: [aprssig] RE: FT-8500 died - A resolution

I would just solder in a 'generic' coin cell.

stuff deleted...

-----

73, Bob

-----  
Robert Donnell, KD7NM (206) 542-7661  
18828 Midvale Ave N mailto:kd7nm@pugetsound.net  
Shoreline, WA 98133  
Western Washington Amateur IP Address Coordinator  
-----

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---

## 67. [aprssid] Re: Limiting number of stations reported?

From: "Dick Stanich" <[dstanich@c2i2.com](mailto:dstanich@c2i2.com)>  
Date: Mon, 4 Dec 2000 19:41:34  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-122855-2000.12.04-19.53.51--lyris.aprssid@tapr.org@lists.tapr.org](mailto:LYR842-122855-2000.12.04-19.53.51--lyris.aprssid@tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

The latest version of AFilter is v. 2.01. Also, be aware that a new version will be released in a few days. The current release is available at <http://www.c2i2.com/~yumaprs>

A modification is being de-bugged to handle the 'unhandled exception errors'. I'm sure Bill will posted more information soon.

Dick, KB7ZVA  
Southwest Arizona APRS Group

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---

## 68. [aprssid] Portable APRS / ARES box

From: "Travis J. Maclay" <[travis@btea.org](mailto:travis@btea.org)>  
Date: Mon, 4 Dec 2000 21:25:38 -0500  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-122864-2000.12.04-20.37.43--lyris.aprssid@tapr.org@lists.tapr.org](mailto:LYR842-122864-2000.12.04-20.37.43--lyris.aprssid@tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Quick question:

I am building a box for a portable radio / tracker system. It will consist of a 50w Yaesu rig, with switchable power supply, 2 6v. gel cells, etc.

My question is if anyone can point me toward a good place to buy two batteries for this box? I need two 6v 24ah gel cells, but am looking for good resources if any are known. Preferably a web site would be appreciated.

Thanks in advance,  
Travis

<>< <>< <>< <>< <>< <>< <>< <><

Where's Travis?  
<http://map.findu.com/n4tjm-1>

Want \$5 free in less than 3 minutes? Safely pay for items over the internet with your credit card!  
<https://secure.paypal.com/refer/pal=travis%40btea.org>

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---

## 69. [aprssid] Re: Limiting number of stations reported?

From: "Jeff Brenton" <[jeffbb@espi.com](mailto:jeffbb@espi.com)>  
Date: Mon, 4 Dec 2000 20:54:46 -0600  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-122865-2000.12.04-21.12.41--lyris.aprssid@tapr.org@lists.tapr.org](mailto:LYR842-122865-2000.12.04-21.12.41--lyris.aprssid@tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

For files like this, I'm willing to mirror them on the Questionable web page, as well. I hadn't mentioned it to Bill recently, because we were going through a transition over the past 6 months that has seen a single 128K DSL replaced by a T1 (last week) and a 384K DSL at another site (July), and capacity was limited.

I already have a mirror up for Xastir (<http://xastir.dididahdidit.com>), and will have a lot more disk space "soon", when I get a chance to build the

new server...

Jeff Brenton, Amateur Radio call sign KA9VNV  
http://espi.com  
Questionable web page: http://dididahdidit.com  
That strange feeling that you've never  
done this before: http://uvajed.espi.com

"Modern Liberalism: The embodiment of an irrational fear of  
letting other people run their own lives."

---

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## 70. [aprssig] Re: Packet on 145.010 to APRS

From: Jim Duncan <ku0g@kcaprs.org>  
Date: Mon, 04 Dec 2000 21:25:24 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122887-2000.12.04-21.39.06--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Zach:

I am firmly against anything that would attempt to link traditional  
connected-mode packet into the APRS system for several reasons, to wit:

1) The average BBS-user does not understand the concept of UI frame  
operations that we use in APRS. What WILL happen (and has around here!)  
is that some of the "old timers" (gee, that's a strange term to use for  
such a young mode as packet!) will see all this data and then start  
CONNECTING to everyone they see as they see them. It's a recipe for a  
LOT of confusion and bruised egos ("why won't they talk to me?" "What a  
bunch of stuck-up hams!", etc. etc.).

2) Face the facts that the old BBS system is dying a slow, agonizing  
death. This is due (bear in mind that I'm a former BBS Sysop who "saw  
the light of the Great Brunina" burning his beacon through the fog and  
haze) to the fact that the BBS forwarding system is choked with jokes,  
for sale, recipes and all sorts of other WORTHLESS junk mail when it  
SHOULD have kept it's focus on the passing of real traffic between  
people.

3) The first time that some BBS sysop or user on 145.01 (or .03, .05,  
.07 or .09 etc.) sees someone sending a lot of "beacons" they start  
grousing about how it keeps them from connecting to the BBS, their buddy  
across town, etc. etc. Case in point: In Kansas City we have an  
occasional APRS user who also uses the same radio for voice work. He  
REGULARLY forgets to change the +600 offset to simplex when he switches  
over to APRS and, as a result, I start getting phone messages from the  
144.99 primary BBS sysop about it. Nevermind the fact that there are  
less than 10 people that still use that BBS, let someone start sending  
APRS beacons on a non-APRS frequency and the fur'll start flyin'!

Now, if someone can show me how to convince the "old timers" that APRS  
can co-exist AND provide them a great service and practical use for  
their ancient KPC-2's, etc., PLEASE DO IT! I'd LOVE to see EVERY packet  
operator use APRS IN ADDITION TO WHAT HE/SHE NORMALLY DOES WITH PACKET!

Amen.

Please stand, turn and greet each other with a greeting of peace after  
which we will collect your offerings....

--

73 de Jim, KU0G  
Chairman/Coordinator  
Kansas City APRS Working Group, W0APR  
First Alert Storm Team KMBC-TV9  
Mailto:ku0g@kcaprs.org  
Webpage: http://www.kcaprs.org

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---

## 71. [aprssid] Re: Packet on 145.010 to APRS

From: Jeff King <jeff@aerodata.net>  
Date: Mon, 04 Dec 2000 23:14:14 -0500  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-122889-2000.12.04-22.21.28--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Being one of the "old timers" (first on packet in 1984, ran two major PBBS's, NOS hubs, digis, ect ect) I took some exception to this message. Its always best to work with people instead of dividing them. To wit:

Jim Duncan wrote:

>

> 1) The average BBS-user does not understand the concept of UI frame  
> operations that we use in APRS. What WILL happen (and has around here!)  
> is that some of the "old timers" (gee, that's a strange term to use for  
> such a young mode as packet!) will see all this data and then start  
> CONNECTING to everyone they see as they see them. It's a recipe for a  
> LOT of confusion and bruised egos ("why won't they talk to me?" "What a  
> bunch of stuck-up hams!", etc. etc.).

Same thing happened when we first started running TCP/IP here in the late 80's..... guess what, we used UI frames before APRS! What we did is put a polite message in the connect text telling them what it was and how to get more info. We didn't treat the curious as if they were ignorant and drive them away.... we tried to interest them in this particular mode. Yes, and sometimes we had connected mode packets on our lan....we discourage this but sometimes it was worth it to attract new users.

> 2) Face the facts that the old BBS system is dying a slow, agonizing  
> death.

Not in Europe, or at least the packet infrastructure is alive and well. You'd really be amazed....in particular what the German's have done.

> to the fact that the BBS forwarding system is choked with jokes,  
> for sale, recipes and all sorts of other WORTHLESS junk mail when it  
> SHOULD have kept it's focus on the passing of real traffic between  
> people.

Well.... I guess those BBS people could just as easily say that 90% of APRS users are tracking their house. One man's worthless is another man's hobby.

> Case in point: In Kansas City we have an  
> occassional APRS user who also uses the same radio for voice work. He  
> REGULARLY forgets to change the +600 offset to simplex when he switches  
> over to APRS and, as a result, I start getting phone messages from the  
> 144.99 primary BBS sysop about it. Nevermind the fact that there are  
> less than 10 people that still use that BBS, let someone start sending  
> APRS beacons on a non-APRS frequency and the fur'll start flyin'!

Well.... did you not consider that he is LISTENING on 144.39 but transmitting on 144.99? Meaning, he is very likely colliding with the BBS or its users. Seems like a good reason to fly the fur to me! Instead of indicting the BBS sysop.... maybe you should educate your occasional APRS user as how to set his radio up.

As one of those "old timers" I'll make the following observation. With every new packet application, be it PBBS's, TEXNET, ROSE, NOS, DX CLUSTER, APRS, NETROM, ect I have seen the evangelists. But almost universally they have had problems "playing together" and this had little to do with technical issues. Its been my observation most people put up major hubs/systems as an ego trip, and as such, there is little advantage in playing together.

Its up to us to observe and use the best practices from other aspects of packet radio. And believe me, their is still alot of innovation going on in packet radio... we just have to open our eyes to it.

I'll make this prediction now.... that the majority of real radio network improvements to APRS will occur in Europe. We already are seeing this.

-Jeff

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## 72. [aprssid] Re: Packet on 145.010 to APRS

From: Joel Maslak <[jmaslak@antelope.net](mailto:jmaslak@antelope.net)>  
Date: Mon, 4 Dec 2000 21:23:31 -0700 (MST)  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-122895-2000.12.04-22.35.01--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-122895-2000.12.04-22.35.01--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

On Mon, 4 Dec 2000, Jim Duncan wrote:

> I am firmly against anything that would attempt to link traditional  
> connected-mode packet into the APRS system for several reasons, to wit:

I heard the initial proposal, and thought the same thing. It will make  
145.01 unusable if we gate 144.39 to it, and it will make 144.39 unusable  
if we do it the other way around.

However... What about a specialized BBS system so that the 145.01 users  
can participate in the 144.39 traffic? Most of APRS doesn't require  
sophisticated software. After all, all you usually want to do is:

- 1) Where is Bob?
- 2) Are there any bulletins?
- 3) I want to send a short message
- 4) Engage in a QSO (I'm assuming that QSOs are still considered  
"good amateur practice" on APRS!)

A simple text mode BBS on 145.01 with a link to 144.39 could do all of  
this. The user on 145.01 connects to this "APRNode". Once connected, he  
can view bulletins, input his position, send short APRS messages, engage  
in QSOs, etc. His end would be all connected-mode, with a basic text menu  
interface (like a BBS) which let him query the node. The node would keep a  
"picture" of the APRS network in it's memory.

There would be NO automatic digipeting between frequencies!

Many hams still like the "old" connected-mode packet for sending fairly  
large piece of information during an emergency. Consider, for example, a  
list of survivors (and next of kin phone numbers) from a  
disaster. It might be easier just to send it as one file instead of 500  
APRS messages! As a result, like it or not, many people won't switch to  
APRS. But, they might like to have some of the tactical information that  
APRS provides... We might be able to do this with only one terminal at  
each site if there was some central shared resources.

If there really is legitimate interest in this, I might even be persuaded  
into helping write some software to implement this... (as a side  
note: Software developers -- look into the Palm Pilot for your  
single-serial port applications, like digipeters! I venture to say that  
it is easier to power a palm in a remote corner of the world than an  
entire PC. I think these things could make awesome smart digis).

--

Joel Maslak  
N7XUC

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## 73. [aprssid] Re: aprs.net?

From: Greg Noneman <[greg@clubnet.net](mailto:greg@clubnet.net)>  
Date: Mon, 4 Dec 2000 22:29:56 -0800  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-122914-2000.12.05-00.43.38--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-122914-2000.12.05-00.43.38--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Has anyone contacted Steve Dimse directly to alert him of this problem?

Greg  
WB6ZSU

>www.aprs.net seems to be inaccessible, at least for me, for the last two  
>days. Anyone know what's up? [tom@bluesky.org](mailto:tom@bluesky.org)

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From: "Bryan Jarvis" <bjarvis@metronewsservice.net>  
Date: Tue, 5 Dec 2000 01:16:50 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122920-2000.12.05-01.32.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Would someone be kind enough to provide me instructions on how to run AFilter?

How do I tie it in to the main WinAPRS program?

Does it matter which app starts first?, which text files need to be updated?, etc.

Also, I seem to be getting a lot of 'lockups' where AFilter stops responding and I have to end-task it.

For stuff like this, do we want to use private email or are others likely to be interested in this thread?

Thanks in advance!

Bryan

```
=====
Bryan Jarvis                KD5LBK                vader1@flash.net
Metro News Service, Inc.    bjarvis@metro-news.com
    phone: (972) 768-2002
    fax: (972) 436-7553
alpha pager: (972) 209-1505 -or- text email to:
                                1614047@gte.pagegate.net
```

I have created a monster and given it life,  
a life which shall destroy me yet!

Want to find my truck?  
<http://www.findu.com/cgi-bin/find.cgi?kd5lbk-1>

From: bounce-aprssid-19907@lists.tapr.org  
[mailto:bounce-aprssid-19907@lists.tapr.org] On Behalf Of Dick Stanich  
Sent: Monday, December 04, 2000 19:42  
To: TAPR APRS Special Interest Group  
Subject: [aprssid] Re: Limiting number of stations reported?

The latest version of AFilter is v. 2.01. Also, be aware that a new version will be released in a few days. The current release is available at <http://www.c2i2.com/~yumaprs>

A modification is being de-bugged to handle the 'unhandled exception errors'. I'm sure Bill will posted more information soon.

Dick, KB7ZVA  
Southwest Arizona APRS Group

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[Attachment: Bryan Jarvis (E-mail).vcf; text/x-vcard; 761 bytes]

From: Mark Fellhauer <sparkfel@primer.net>  
Date: Tue, 05 Dec 2000 01:25:29 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "Mike Yetko" <myetsko@insydesw.com>  
Message-ID: <LYR842-122921-2000.12.05-01.38.34--lyris.aprssi@lists.tapr.org>

Rendered body type: text/plain

At 06:43 PM 12/4/00, Mike Yetko wrote:

>>I would just solder in a 'generic' coin cell.

At 07:37 PM 12/4/00, Robert Donnell wrote:

>>Soldering to lithium cells should be strongly discouraged -  
>>you have a high  
>>probability of popping the seals due to overheating.

Both points are well taken. I will venture out to Batteries Plus tomorrow (today) and pick up a new battery. I'm told they have the proper equipment to spot-weld tabs onto a lithium coin if they don't have a solder tab unit in stock. The stock battery was held in place with double-sided sticky tape and insulated with some sticky mylar dots. I intend to insulate the solder tabs (specifically the negative terminal better than Yaesu did. It almost appears as if the negative terminal could've contacted the positive edge of the battery.

Is a lithium coin a battery or a cell? I assume it's a battery as it puts out 3 volts.

Despite the short run for the FT-8500, I still think it's one of the best designed (egonomically) mobiles ever made. I wonder when Yaesu is going to come out with a new true dual-bander again? Or is the dual-bander dead? The FT-8100 is showing it's age. I guess I'll have to break down and buy a TM-D700 one of these days.

73,

Mark  
KC7BXS

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## 76. [aprssi] RE: Coin Batteries [ WAS: FT-8500 died - A resolution

From: WA8LMF1@aol.com  
Date: Tue, 5 Dec 2000 05:11:03 EST  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-122926-2000.12.05-04.23.23--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I have bought several coin cells with attached leads at big electronics parts places around here.

At this moment, I am soldering a Dantona COMP-2-2P 3volt lithium cell into my Kenwood TM-421A UHF xcvr. Both the 421 and my TM-221A [the two-meter counterpart] died the same month! (I got both radios at the same time about 8 years ago.) This battery is essentially the standard 2036 PC motherboard clock/bios coin cell with leads already welded on and was about \$4. The battery packaged and resold by Dantona is actually a Panasonic BR-2325.

<< Is a lithium coin a battery or a cell? I assume it's a battery as it puts out 3 volts. >>

I believe this "battery" IS a single cell -- the three-volt output is a result of non-carbon-zinc chemistry.

Dantona sells a gazillion kinds of nicad and lithium packs for cordless phones, computers, clocks, Bearcat scanner memories, etc as well as replacement whips for the devices. They seem to be quite widely distributed through electronic parts stores.

Stephen H. Smith  
Email: wa8lmf@aol.com  
Homepage: http://members.aol.com/wa8lmf

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| Radio Communications Systems      Personal Computers  
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From: Bill Diaz <billdiaz@megsinet.net>  
Date: Tue, 5 Dec 2000 07:06:45 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122934-2000.12.05-07.19.19--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Brian,

```
On Tuesday, December 05, 2000 1:17 AM, Bryan Jarvis
[SMTP:bjarvis@metronewsservice.net] wrote:
> Would someone be kind enough to provide me instructions
> on how to run AFilter?
>
>
> How do I tie it in to the main WinAPRS program?
```

The AFilter doc files contain setup information that should answer most of your questions. I have included the basic instructions for the installation and operation below.

AFilter should be installed in your WinAprs directory.

AFilter requires the creation of a file called AServe.txt. An example AServe.txt file was included with the distribution. This file is identical in format to aprsextra.txt. Each field is delimited with TAB, not spaces. AFilter uses this file to permit the user to choose the desired server and to permit Auto-Reconnect when the connection is interrupted.

AServe.txt example:

```
www.aprs.net      10151  APRServe 10151 8 hr dump
www.aprs.net      23     AprsServe - 23
second.aprs.net   23     Secondnet 23
aprs.social.interworld.net      23
```

The WinAprs file aprsextra.txt must be modified by adding localhost  
<TAB> 3033<TAB>Local filter.

Start AFilter, then WinAprs. Select WinAprs menu Settings, TCP/IP selections, Local filter.

If you are not connected to the Internet, AFilter will initiate the connection and begin to download data from the server and port selected in AFilter. This data will be relayed to WinAps according to your AFilter settings.

AFilter permits the user to designate a filter radius in miles from your station. All stations that fall within the specified radius of your station will be passed to WinAprs once a valid location has been received. Stations within the radius can be excluded by placing the call and ssid in the exclusion list (Xlist).

Calls within and outside the distance filter can be passed by placing the call and SSID in the budlist.

```
> Also, I seem to be getting a lot of 'lockups' where
> AFilter stops responding and I have to end-task it.
```

If AFilter is connected to port 10151, it may take a while to digest the entire 8 hour dump. It may seem to be unresponsive but data should be continually passed to WinAprs during the initial download.

If the server stops sending data for some reason, AFilter can be configured to Auto-Reconnect to the servers listed in AServe.txt after a short delay. If this AFilter feature is used, WinAps Auto-Reconnect should be disabled. If AFilter Auto-Reconnect is used, and AServe.txt contains records for any server port 10151 you will receive redundant data that will take quite a bit of time to download. Port 10151 is not recommended if Auto-Reconnect is used.



Bill KC9XG

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## 78. [aprssig] RE: FT-8500 died - A resolution

From: "Mike Yetzko" <myetzko@insydesw.com>  
Date: Tue, 5 Dec 2000 08:07:02 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122935-2000.12.05-07.24.13--lyris.aprssig#tapr.org@lists.tapr.org>  
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Robert,

Yes, you are correct.

However, I have never popped a seal on a lithium cell. But that is not to say I never will.

That's one of the reasons I use external flux and prepare the cell before soldering. And I'm in and out quick. I don't even get the edge of the coin warm as I solder.

But I SHOULD always consider that if I tell someone I can do it, someone with a Weller 240W gun, or an old stick solder iron with a 1" wide tip is going to follow my example. What? You mean that isn't good equipment?

And I do understand that lithium is extremely toxic, but I don't know if the lithium salt in a coin cell is soluble.

Mike

---

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## 79. [aprssig] APRS Ham Radio NEWS channel!

From: Bob Bruninga <bruninga@usna.edu>  
Date: Tue, 5 Dec 2000 08:52:09 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122938-2000.12.05-08.04.14--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> Not if it puts any BBS traffic (or BBS access or messages) on APRS !  
> "Regular" BBSs are almost all gone anyway. The Internet has killed them

I like to think of APRS as HAM Radio's Wireless Internet for mobiles and handhelds. With 250 pages of display capability in the Kenwoods, there is lots of power we have not yet fully exploited...

Here are uses for these Tiny-Web Page viewers:

- 1) On 144.39 use them for Vehicle location
- 2) Use them as 2-way message pagers
- 3) Use them for up-to-date WX viewing
- 4) Use them to get real time satellite tracking info (APRSdata nearby)
- 5) QSY to a DX cluster and get DX spots
- 6) QSY to the APRS NEWS Channel!

I don't see why someone could not put up a full time NEWS server on a SEPARATE freq and continuously stream the top 16 HAM RADIO News items. Plus any position related data.

If you want a news dump, QSY to the "news channel" and in about 20 seconds you could capture an HT FULL of news. This could supplement those local clubs that weekly transmit the "amateur Radio News", by making it available all the time.

The reason this has to be on a different channel is because it will fill up the HT. It only has 16 MESSAGE memories and no one would want their personal messages overwritten unless they asked for it (by QSYing to the NEWS channel).

ALSO, then the NEWS channel could continuously stream the POSITS for all worldwide SPECIAL APRS EVENTS. The NEWS server could monitor APRSserve and forward any packet addressed to "SPECL". We always intended SPECL as a special callsign that had special coding to apply to special events so that non-event traffic could be ignored.

This way the NEWS channel is your worldwide feed of what is going on LIVE in APRS that is of interest.

Choose any local packet frequency that you can coordinate for your news channel. Then put up a once every 10 minute LOCAL beacon on 144.39 showing the frequency for the local NEWS channel...

Just a thought. SO much to do.... so little time..

AHAAAA! And it could be AUTOMATIC and REALTIME! The NEWS server simply monitors the APRSserve feed and forwards all of the following to its local NEWS channel.

- 1) All POSITS addressed to SPECL
- 2) All bulletins addressed to QST

Thus, anyone, anywhere that has news can post it. Yes, this can be abused by people that think their personal news is important. But I'm sure we can find a way to solve that too. Maybe restrict it to only certain "FROM" addresses, such as the existing Ham Radio News Authors etc... Or permit only ONE packet per callsign except for authorized "newsmen".. etc...

Just thinking out loud here...

Hummh.... QSTALL for worldwide  
QSTUSA for ARRL stuff  
QSTFLA for the latest Ham Radio Election info etc...

Then local NEWS SERVERS can filter out unneeded news (like from Europe)  
OR, USERS can use their MESSAGE GROUPS to select only the MESSAGE groups they want...

de WB4APR, Bob

---

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## 80. [aprssig] Re: Fujitsu Palmtop Poqet PC Plus

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Tue, 5 Dec 2000 09:01:53 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-122939-2000.12.05-08.16.22--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-122939-2000.12.05-08.16.22--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

On Mon, 4 Dec 2000, Dale Blanchard wrote:

> These are at [starsurplus.com](http://starsurplus.com). Looks like they may be ok for  
> mobile/portable dos machines. \$139.00

Looks interesting. The display is CGA, so APRSdos should be able to draw maps. RUNs 2 to 8 hours on 2 AA Nicads, should run 60 to 250 hours on a pair of D cells (Alkaline).

Hummh...

---

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---

## 81. [aprssig] RE: Question for the group

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Tue, 5 Dec 2000 09:12:06 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>

Cc: TAPR APRS Special Interest Group <aprssid@lists.tapr.org>  
Message-ID: <LYR842-122940-2000.12.05-08.25.14--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> > Some common usages [of SSID's] are:  
> >  
> > -7 for the Kenwood THD7 HT  
> > -8 for your mobile kenwood if you also have the -7 in use, else -7  
> > -9 in general for your mobile  
> > -6 I like to use for portable or non-home station ops

I have added another one.

-3 for use on the satellites (SUNSAT)  
-2 for use on U022

This way it is easy to see who may be using the APRS satellites to get into the network. Since the D700 has 5 program memories, I have mine configured as:

PM SSID USE

-----  
1) -8 Normal APRS on 144.39  
2) -9 Normal APRS on 144.39 PACKET mode fo when my Laptop is plugged in  
3) -3 APRS via SUNSAT on 145.825 9600 baud uplink  
4) -2 APRS via U022 on 145.900 9600 baud uplink.

When I leave the car parked, I hit PM #3 or #4 depending on which satellite is next. After midnight, select SUNSAT. Before lunch, use U022. In the mid afternoon select SUNSAT again.

Then I can go to FINDU.COM and see which of my packets are getting in...

de WB4APR, Bob

---

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## 82. [aprssid] D700 Power down.

From: Bob Bruninga <bruninga@usna.edu>  
Date: Tue, 5 Dec 2000 10:12:53 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-122945-2000.12.05-09.26.12--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Several months ago while initially setting up my APRS tiny-web-page server, I remember sending some garbage packets that would shut my D700 down. Seems like we eventually figured out what was the offending packet structure... I now cannot now remember the details...

If anyone remembers the exact structure that will shut down the D700, how about sending it to me PRIVATELY and not on the SIG.. Thanks.

Bob

---

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---

## 83. [aprssid] Re: D700 Power down.

From: Valentino Sarro <sarro@home.com>  
Date: Tue, 05 Dec 2000 09:00:31 -0700  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-122956-2000.12.05-10.13.00--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bob and SIG:

Yes, I mentioned this problem earlier in the year....I will forward the info.....(I had been long wondering if Kenwood was looking into this or what).

Tino/VE6SZR

Bob Bruninga wrote:

> Several months ago while initially setting up my APRS tiny-web-page  
> server, I remember sending some garbage packets that would  
> shut my D700 down. Seems like we eventually figured out what was the  
> offending packet structure... I now cannot now remember the details....  
>  
> If anyone remembers the exact structure that will shut down the D700, how  
> about sending it to me PRIVATELY and not on the SIG.. Thanks.  
>  
> Bob  
>

---

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---

## 84. [aprssig] Re: APRS Ham Radio NEWS channel!

From: John Gorkos <jgorkos@ocho.san-carlos.rms.slb.com>  
Date: Tue, 05 Dec 2000 10:17:58 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122957-2000.12.05-10.27.58--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bob Bruninga wrote:

> I like to think of APRS as HAM Radio's Wireless Internet for mobiles and  
> handhelds. With 250 pages of display capability in the Kenwoods, there is  
> lots of power we have not yet fully exploited...  
Amen.

>

> Here are uses for these Tiny-Web Page viewers:

- > 1) On 144.39 use them for Vehicle location
- > 2) Use them as 2-way message pagers
- > 3) Use them for up-to-date WX viewing
- > 4) Use them to get real time satellite tracking info (APRSdata nearby)
- > 5) QSY to a DX cluster and get DX spots

If you would have stopped right there, I would have given one of Jim  
Duncan's "Amen"s and passed the collection plate. BUT, I disagree with  
the final bullet.

- > 6) QSY to the APRS NEWS Channel!
- > I don't see why someone could not put up a full time NEWS server on a  
> SEPARATE freq and continuously stream the top 16 HAM RADIO News items.  
> Plus any position related data.

There is a subtle but real difference between a bulletin and a  
broadcast, and this smacks of broadcasting. \_My\_ view of an APRS  
information system is more client-server based: The server is silent  
until someone requests something. For example, a message sent to the  
Tiny Web Server:

MSG TO: NEWS

LIST

Would come back with a message (or three) with a news ID and a synopsis,  
preferably in 3x12 format:

1A:AMSAT P3D

1B:NWS TNG

1C:Navy Wins (boo, hiss)

Using a hex numbering system (or a full Alpha numbering system) would  
allow for more unique articles in a smaller character footprint. The  
client then requests a story with a second message:

MSG TO: NEWS

?:1A

and the news artical would be streamed in 3x12 format. A really clever  
news server would use status packets to determine the client type and  
format the story for that particular user. Even better would be a  
hetarchical system with news SUBJECTS at the top (AMSAT, DX, NWS, LOCAL)  
and stories lists available with the second query. Local stories could  
be based on position, or callsign zone, or a parameter in the story  
request message.

>

- > If you want a news dump, QSY to the "news channel" and in about 20 seconds

> you could capture an HT FULL of news. This could supplement those local  
> clubs that weekly transmit the "amateur Radio News", by making it  
> available all the time.

One huge problem here is the lack of available frequencies, and the lack of available transmitters for those frequencies. We shouldn't limit the availability of such a valuable service to only the largest cities or the richest areas where hams can afford to set up a separate transmission system for news. With a client-server (request-based) system, news is available all the time, WHEN you want it.

>  
> The reason this has to be on a different channel is because it will fill  
> up the HT. It only has 16 MESSAGE memories and no one would want their  
> personal messages overwritten unless they asked for it (by QSYing to the  
> NEWS channel).

Perhaps the news should be sent as bulletins to NEWS, and users of D7s could opt to include NEWS in their message lists or not...

>  
> ALSO, then the NEWS channel could continuously stream the POSITS for all  
> worldwide SPECIAL APRS EVENTS. The NEWS server could monitor APRSServe  
> and forward any packet addressed to "SPECL". We always intended SPECL as  
> a special callsign that had special coding to apply to special events so  
> that non-event traffic could be ignored.  
I think the best way to get news into the server is via a standard web page, with moderation. Users could connect to the web page and submit new news stories, and a form could ensure they are formatted correctly and of appropriate length.

>  
> This way the NEWS channel is your worldwide feed of what is going on LIVE  
> in APRS that is of interest.  
>  
> AHAHA! And it could be AUTOMATIC and REALTIME! The NEWS server simply  
> monitors the APRSServe feed and forwards all of the following to its local  
> NEWS channel.  
>  
> 1) All POSITS addressed to SPECL  
> 2) All bulletins addressed to QST  
>  
> Thus, anyone, anywhere that has news can post it. Yes, this can be  
> abused by people that think their personal news is important. But I'm  
> sure we can find a way to solve that too. Maybe restrict it to only  
> certain "FROM" addresses, such as the existing Ham Radio News Authors  
> etc... Or permit only ONE packet per callsign except for authorized  
> "newsmen".. etc...  
>  
> Just thinking out loud here...  
>  
> Hummh.... QSTALL for worldwide  
> QSTUSA for ARRL stuff  
> QSTFLA for the latest Ham Radio Election info etc...  
>  
> Then local NEWS SERVERS can filter out unneeded news (like from Europe)  
> OR, USERS can use their MESSAGE GROUPS to select only the MESSAGE groups  
> they want...  
>

All of those ideas could be incorporated into the client-server version as easily as a streaming version.

Bob and I agree that the next step is to add value-added information (information versus DATA) to the APRS network. The argument that APRS is boring because it's a bunch of people tracking their houses is powerful to the uninformed, but the idea of a melded network that combines the portability of ham radio with the global-ness of the internet to create a global information and messaging network, now THAT'S a head-turner.

Another important thing to remember is that all this goes away with a single flick of the switch when a network goes into Emergency mode. The most important traffic we carry is traffic in support of our local heroes saving lives and property. We can't depend on internet connections for that kind of messaging, but in the 'tween times, it's a great idea to bring new hams into the APRS fold with portable, personalizable digital news stations.

John Gorkos  
AB000

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---

## 85. [aprssig] Re: Packet on 145.010 to APRS

From: Alex <kg4ecv@earthlink.net>  
Date: Tue, 05 Dec 2000 11:24:56 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122958-2000.12.05-10.35.59--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi there,

Jim Duncan wrote:

> I am firmly against anything that would attempt to link traditional  
> connected-mode packet into the APRS system for several reasons, to wit:  
>  
> 1) The average BBS-user does not understand the concept of UI frame  
> operations that we use in APRS.

I would see it as a challenge and as an opportunity to bring the two  
(connection oriented and connectionless packet) together and use the  
best of both worlds. We spend too much time dividing people and  
technology, and coming up with reasons not to do things, rather than  
thinking of how we could realize things. It really is easy to come up  
with reasons why not to do things, but unfortunately this attitude  
rarely spawns innovative thoughts.

>  
> 2) Face the facts that the old BBS system is dying a slow, agonizing  
> death. This is due to the fact that the BBS forwarding system is choked with jokes, for sale, recipes  
and all sorts of other WORTHLESS junk mail when it SHOULD have kept it's focus on the passing of real  
traffic between  
> people.

You mean this is not due to lack of innovations or not upgrading  
networks? What you call junk mail could be useful information to others.  
And if junk mail truly is the reason of BBS systems becoming unpopular,  
then I guess the fall of the internet is near. What is real traffic,  
anyway? Me telling my buddy that I bought a new power supply? How's that  
less WORTHLESS than exchanging a cookie recipe as third party traffic  
between my two grandmas? Besides, there's nothing in APRS that would  
prevent people from exchanging recipes, so I don't really believe that  
the content of a message can be used as an argument against integration  
of both networks.

>  
> 3) The first time that some BBS sysop or user on 145.01 (or .03, .05,  
> .07 or .09 etc.) sees someone sending a lot of "beacons" they start  
> grousing about how it keeps them from connecting to the BBS, their buddy  
> across town, etc. etc.

Well, can we think of ways to prevent this?

> Now, if someone can show me how to convince the "old timers" that APRS  
> can co-exist AND provide them a great service and practical use for  
> their ancient KPC-2's, etc., PLEASE DO IT! I'd LOVE to see EVERY packet  
> operator use APRS IN ADDITION TO WHAT HE/SHE NORMALLY DOES WITH PACKET!

Perhaps we can start by showing them some respect for them and for their  
way of doing things. Maybe we can even come up with some ideas to  
integrate the two services. The internet would have never have been so  
popular if the end user would have to switch networks every time they  
would like to use a different application.

>  
> Amen.  
>  
> Please stand, turn and greet each other with a greeting of peace after  
> which we will collect your offerings....  
> --  
> 73 de Jim, KU0G  
> Chairman/Coordinator  
> Kansas City APRS Working Group, W0APR

> First Alert Storm Team KMBC-TV9  
> Mailto:ku0g@kcaprs.org  
> Webpage: <http://www.kcaprs.org>

---

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## 86. [aprssig] Re: Fujitsu Palmtop Poqet PC Plus

From: Dale Blanchard <[bolero@accessnv.com](mailto:bolero@accessnv.com)>  
Date: Tue, 05 Dec 2000 08:00:56 -0800  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-122960-2000.12.05-10.41.28--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bob Bruninga wrote:

>  
> On Mon, 4 Dec 2000, Dale Blanchard wrote:  
>  
> > These are at [starsurplus.com](http://starsurplus.com) . Looks like they may be ok for  
> > mobile/portable dos machines. \$139.00  
>  
> Looks interesting. The display is CGA, so APRSdos should be able to draw  
> maps. RUnS 2 to 8 hours on 2 AA Nicads, should run 60 to 250 hours on a  
> pair of D cells (Alkaline).  
>  
> Hummh...

And has key board that you can actually type on. Will fit on dashboard.

---

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---

## 87. [aprssig] PalmAPRS

From: David VanHorn <[dvanhorn@cedar.net](mailto:dvanhorn@cedar.net)>  
Date: Tue, 05 Dec 2000 11:24:55 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-122961-2000.12.05-10.48.04--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Ok, so I'm a jinx...

I had palm aprs working fine, then suddenly, it stopped copying stations.  
The cable is ok, I can talk to the TNC (TH-D7a) just fine.  
Also, when I display packets, they are showing up as I hear them on the radio.

It seems that somehow the app is confused, and not taking the input.

I tried manually putting the TNC in "conv" mode, and also exiting terminal  
with it not in conv, seems to make no difference.

Any ideas?

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

---

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---

## 88. [aprssig] Re: Packet on 145.010 to APRS

From: Alex <[kg4ecv@earthlink.net](mailto:kg4ecv@earthlink.net)>  
Date: Tue, 05 Dec 2000 12:05:11 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-122967-2000.12.05-11.19.23--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Jeff King wrote:

> Its up to us to observe and use the best practices from other aspects of packet

> radio. And believe me, there is still a lot of innovation going on in packet  
> radio... we just have to open our eyes to it.

Exactly! Or should I say "Amen"? ;)

I really wonder where this unwillingness to integrate or interface two systems comes from. The internet is often being accused of discouraging people to get interested in ham radio. At the same time (some) people refuse to look at where this success of the internet comes from and apply the lessons that can be learned from it to ham radio. Apparently some people like to make the case that we should let human error stand in the way of advancement in technology, rather than thinking of how this technology could be used to prevent these human errors so that we advance together.

> -Jeff

---

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---

## 89. [aprssi] Assigning SSIDs according to capabilities

From: Alex <[kg4ecv@earthlink.net](mailto:kg4ecv@earthlink.net)>  
Date: Tue, 05 Dec 2000 12:43:34 -0500  
To: "TAPR APRS Special Interest Group" <[aprssi@lists.tapr.org](mailto:aprssi@lists.tapr.org)>  
Message-ID: <[LYR842-122973-2000.12.05-11.56.28-lyris.aprssi#tapr.org@lists.tapr.org](mailto:LYR842-122973-2000.12.05-11.56.28-lyris.aprssi#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Hi there,

I think if there's ever going to be a protocol specification for the SSIDs, then I think we should leave off all brand specific SSIDs. If we want to identify brands then we should include Alinco's 135T and reserve ids for other brands that may make a APRS capable radio available in the future, and of course any other APRS product like the TinyTrak, TigerTrack etc.. I think that the icons and status messages are sufficient if one would like such identification.

If we want to give some useful meaning to SSIDs, perhaps we can make binary assignments according to capabilities. Like:

```
0000 0001 : capable of receiving messages
0000 0010 : capable of answering queries
0000 0011 : capable of receiving messages and answering queries
0000 0100 : capable of working satellites
```

This way an application could have some idea of what the recipient of a packet to be sent out is capable of and make decisions based on that. It could, for instance, refuse to send messages to a station that is not capable of receiving messages or refuse to send queries to a station that is not capable of answering queries. This could save some precious bandwidth. Just a thought.

73s,  
--Alex

---

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---

## 90. [aprssi] Re: Assigning SSIDs according to capabilities

From: Alex <[kg4ecv@earthlink.net](mailto:kg4ecv@earthlink.net)>  
Date: Tue, 05 Dec 2000 12:51:25 -0500  
To: "TAPR APRS Special Interest Group" <[aprssi@lists.tapr.org](mailto:aprssi@lists.tapr.org)>  
Message-ID: <[LYR842-122975-2000.12.05-12.02.31-lyris.aprssi#tapr.org@lists.tapr.org](mailto:LYR842-122975-2000.12.05-12.02.31-lyris.aprssi#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Ouch! I just realized that it's a dumb idea for obvious reasons. Sorry for wasting the bandwidth...

73s,  
--Alex

Alex wrote:

```
> If we want to give some useful meaning to SSIDs, perhaps we can make
> binary assignments according to capabilities.
```



---

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## 91. [aprssig] Re: Assigning SSIDs according to capabilities

From: David VanHorn <dvanhorn@cedar.net>  
Date: Tue, 05 Dec 2000 13:06:30 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122980-2000.12.05-12.21.34--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 12:51 PM 12/5/00 -0500, Alex wrote:  
>Ouch! I just realized that it's a dumb idea for obvious reasons. Sorry  
>for wasting the bandwidth...  
>

Enlighten me?

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

---

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## 92. [aprssig] Kentronics GPS Tracker(s) (combined KPC3 + and GPS 12 with active antenna)

From: "Clayton H. Owen" <aa3jy@erols.com>  
Date: Tue, 05 Dec 2000 13:19:30 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122983-2000.12.05-12.31.29--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi All..

I have 2 brand new, in the box, Kentronics GPS Tracker units for sale.  
Both for \$550 or one for \$300. Please contact me privately if  
interested.

Clay AA3JY

---

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---

## 93. [aprssig] Re: Assigning SSIDs according to capabilities

From: Bob Bruninga <bruninga@usna.edu>  
Date: Tue, 5 Dec 2000 13:22:07 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-122987-2000.12.05-12.33.35--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

There is no spec. You can use ANY SSID for anything you want.  
I like to use -7 for my D7. Anyone can do anything they want.  
if you want to use -13 for your Alinco 135, then that too might be a good  
suggestion...

it doesnt matter.. But it doesnt hurt to know what other "conventions"  
are in use in some areas...

bob

On Tue, 5 Dec 2000, Alex wrote:

> Hi there,  
>  
> I think if there's ever going to be a protocol specification for the  
> SSIDs, then I think we should leave off all brand specific SSIDs. If we  
> want to identify brands then we should include Alinco's 135T and reserve  
> ids for other brands that may make a APRS capable radio available in the  
> future, and of course any other APRS product like the TinyTrak,  
> TigerTrack etc.. I think that the icons and status messages are  
> sufficient if one would like such identification.  
>

```

> If we want to give some useful meaning to SSIDs, perhaps we can make
> binary assignments according to capabilities. Like:
>
> 0000 0001 : capable of receiving messages
> 0000 0010 : capable of answering queries
> 0000 0011 : capable of receiving messages and answering queries
> 0000 0100 : capable of working satellites
>
> This way an application could have some idea of what the recipient of a
> packet to be send out is capable off and make decisions based on that.
> It could, for instance, refuse to send messages to a station that is not
> capable of receiving messages or refuse to send queries to a station
> that is not capable of answering queries. This could save some precious
> bandwidth. Just a thought.
>
> 73s,
> --Alex
>
> ---
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> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org
>
>

```

APRSdos REPLY/COMMENT:

```

Reply mail addr:  wb4apr@amsat.org
US mail address:  115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY:  http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html

```

```

---
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```

---

## 94. [aprssi] Re: Assigning SSIDs according to capabilities

```

From: Alex <kg4ecv@earthlink.net>
Date: Tue, 05 Dec 2000 13:32:34 -0500
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssi@lists.tapr.org>
Message-ID: <LYR842-122993-2000.12.05-12.45.14--lyris.aprssi#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

David VanHorn wrote:

```

>
> At 12:51 PM 12/5/00 -0500, Alex wrote:
> >Ouch! I just realized that it's a dumb idea for obvious reasons. Sorry
> >for wasting the bandwidth...
> >
>
> Enlighten me?

```

It would be nice to know the capabilities of the target station, but you can't use the SSID for that. If I would have two stations with the same capabilities I wouldn't be able to uniquely identify them. Say, I have to stations with message receive capability only, then both stations would have to be called KG4ECV-1 in my example. But perhaps this could be build into the new spec somehow, as you suggested.

```

73s,
--Alex

```

```

---
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```

---

## 95. [aprssi] Re: Assigning SSIDs according to capabilities

```

From: David VanHorn <dvanhorn@cedar.net>
Date: Tue, 05 Dec 2000 13:43:05 -0500
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssi@lists.tapr.org>
Message-ID: <LYR842-122997-2000.12.05-12.57.27--lyris.aprssi#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

>It would be nice to know the capabilities of the target station, but you  
>can't use the SSID for that. If I would have two stations with the same  
>capabilities I wouldn't be able to uniquely identify them. Say, I have  
>to stations with message receive capability only, then both stations  
>would have to be called KG4ECV-1 in my example. But perhaps this could  
>be build into the new spec somehow, as you suggested.

Ah! I had jumped past that :)

Still, I like the idea, and if we choose our bits wisely, it's only one or  
two more bytes to transmit. (unless someone wants them represented only as  
printable ascii, in which case we might as well transmit source code in cobol)

--  
Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

---  
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---

## 96. [aprssig] RE: FT-8500 died - A resolution

From: "Robert Donnell" <[kd7nm@pugetsound.net](mailto:kd7nm@pugetsound.net)>  
Date: Tue, 5 Dec 2000 11:21:49 -0800  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: "Mike Yetko" <[myetsko@insydesw.com](mailto:myetsko@insydesw.com)>  
Message-ID: <[LYR842-123000-2000.12.05-13.34.07-lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-123000-2000.12.05-13.34.07-lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

At Monday, December 04, 2000 11:25 PM, Mark Fellhauer asked:

>Is a lithium coin a battery or a cell? I assume it's a battery as it puts  
>out 3 volts.

Good question. Lithium Ion (the rechargeable ones) appear to be 3-volt  
cells. As far as I know, you can't purchase a 1.5 volt button "battery".  
This implies that they are a single-cell primary energy storage device.  
That probably won't stop any of us from calling them "batteries" anytime  
soon though.

---  
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---

## 97. [aprssig] Re: Assigning SSIDs according to capabilities

From: Bill Diaz <[billdiaz@megsinet.net](mailto:billdiaz@megsinet.net)>  
Date: Tue, 5 Dec 2000 13:11:35 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-123006-2000.12.05-13.50.13-lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-123006-2000.12.05-13.50.13-lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Bob,

On Tuesday, December 05, 2000 12:22 PM, Bob Bruninga [SMTP:[bruninga@usna.edu](mailto:bruninga@usna.edu)]  
wrote:

> There is no spec. You can use ANY SSID for anything you want.  
> I like to use -7 for my D7. Anyone can do anything they want.  
> if you want to use -13 for your Alinco 135, then that too might be a good  
> suggestion...  
>  
> it doesnt matter.. But it doesnt hurt to know what other "conventions"  
> are in use in some areas...

Does this include SSID > 15 or Alpha SSID's?

Bill KC9XG

> bob  
>

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---

## 98. [aprssid] Re: Assigning SSIDs according to capabilities

From: Mike Musick <mcmusick@anet-stl.com>  
Date: Tue, 5 Dec 2000 14:00:34 -0600  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapir.org>  
Message-ID: <LYR842-123008-2000.12.05-14.17.38--lyris.aprssid#tapir.org@lists.tapir.org>  
Rendered body type: text/plain

Bob sez:

>There is no spec. You can use ANY SSID for anything you want.

My gosh, how soon we forget!

SSID has long been the last resort for symbol assignment. In other words, failing any other identifier, the SSID will decide the symbol. This is in the spec - see page 16 and Chapter 20 - and has \*not\* been tagged as something to be replaced or obsoleted.

Also, there is already a protocol (although limited) for distinction of station capabilities in the posit beacon: '!' and '/' signify stations without messaging, and '@' and '=' identify message-capable station. A footnote here is that some historical station types (MIM modules, for instance) erroneously transmit "@" even though they have no message capability.

...mike/N0QBF

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---

## 99. [aprssid] Re: Packet on 145.010 to APRS

From: Mike Musick <mcmusick@anet-stl.com>  
Date: Tue, 5 Dec 2000 14:02:37 -0600  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapir.org>  
Message-ID: <LYR842-123009-2000.12.05-14.21.07--lyris.aprssid#tapir.org@lists.tapir.org>  
Rendered body type: text/plain

>I don't know if this has already been thought of, but would a Packet  
>Radio on 145.010 MHz to APRS 144.390 MHz backbone be useful?

1) Unrelated applications that live on another frequency can be accessed by turning the dial.

2) 144.390 is not a "backbone" - it is a peer-to-peer user frequency.

144.390 is congested beyond usability in many areas. Some of us with long experience in APRS are trying to find ways to segment certain local applications so that we can move stuff OFF of 144.390, but without leaving anybody out. Adding something that already has its own dedicated network would accomplish little other than compounding the congestion, pushing other uses out in the process.

Please... everybody's good idea can't all take place on 144.390; the capacity is simply not there.

...mike

---

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---

## 100. [aprssid] UK APRS Internet server?

From: "Mark Turner" <mark@kram.org>  
Date: Tue, 5 Dec 2000 20:18:11 -0000  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapir.org>  
Message-ID: <LYR842-123010-2000.12.05-14.30.34--lyris.aprssid#tapir.org@lists.tapir.org>  
Rendered body type: text/plain

I suspect the answer to this question may be on [www.aprs.net](http://www.aprs.net), but that site appears to have been dead for a few days.

Could someone please point me towards an APRS server accessible over the

Internet, ideally one here in the UK? I've tried the three configured by default in UIVIEW with no luck.

I'm experimenting with a receive only setup at the moment using a scanner and AGWPE whilst waiting for the cable to arrive which will connect my TH-D7E to my PC and I'd like to see what UIVIEW is like with some real traffic.

Also, if anyone in the UK is reading this and wouldn't mind sparing a few minutes to help me out by email could you please contact me? Specifically I'd like to check that I'm doing my "unattended operation" application right so that, once I know what I'm doing and have practiced for a while attended, I can leave my TH-D7 gatewaying to an APRS server somewhere through my cable modem connection 24 hours.

Thanks,

Mark.  
Cambridge, UK.

---

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---

## 101. [aprssig] Re: UK APRS Internet server?

From: "Jeff Brenton" <jeffb@espi.com>  
Date: Tue, 5 Dec 2000 15:13:56 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123015-2000.12.05-15.26.48--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> point me towards other APRS servers

<http://dididahdahdidit.com/aprsxtra.txt>

This is a file that can be used directly by WinAPRS to point towards other servers, and also has the information needed to access them from other programs.

Jeff Brenton  
President,  
Engineered Software Products, Inc  
<http://espi.com>  
Questionable web page: <http://dididahdahdidit.com>

Liberalism grants you the freedom to advocate any idea\*.  
\* Please see <http://www.dididahdahdidit.com/except.php> for a current list of exceptions

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## 102. [aprssig] Re: UK APRS Internet server?

From: "Mark Turner" <mark@kram.org>  
Date: Tue, 5 Dec 2000 21:19:18 -0000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123017-2000.12.05-15.33.05--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Jeff said....

>

> <http://dididahdahdidit.com/aprsxtra.txt>

>

> This is a file that can be used directly by WinAPRS to point towards other  
> servers, and also has the information needed to access them from other  
> programs.

Thanks very much Jeff, and those that replied by email.

I'm now connected to kc5goi-gw.flyingpig.net port 10151 and my map is looking a lot busier. :)

Cheers,

Mark.

---

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---

### 103. [aprssig] Re: Packet on 145.010 to APRS

From: Jeff King <jeff@aerodata.net>  
Date: Tue, 05 Dec 2000 17:03:54 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123030-2000.12.05-16.10.38--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Mike:

The suggestions would REDUCE the load on 144.39.... not increase it. By having users on lan's other than 144.39, and the attendant reduction of hidden terminals, digipeater paths, etc, you are increasing the net capacity of the system, even if the solution is to gate to 144.39.

As I said in my other message, its been my experience with packet radio, which includes more than APRS, that every new "packet mode" thinks they are the greatest thing since sliced bread and everyone else doesn't have a clue. But they do have a clue, and the sum of the whole is greater than the sum of the parts. APRS has alot to contribute to the whole, but to ignore the work of others before us as well as work on other continents does nothing to contribute to the advancement of APRS.

And one must not forget what started this thread.... someone simply wanted a way to exchange messages/posits with amateurs on other frequencies.... a reasonable request. Yes, one could "turn the knob" as you suggest, but this will only ADD to the problem and make a LESS flexible system. In my eyes interpretability is a good thing as long as everyone plays by the rules. We have plenty of interpretability with APRS on the internet..... we have ICQ gateways, e-mail gateways, internet servers, etc.... IMHO it seems one would be hard pressed to make the case against interpretability with other packet services.

And one comment on something you said:

Mike Musick wrote:

> 2) 144.390 is not a "backbone" - it is a peer-to-peer user frequency.

Agreed, and likely you are one of a handful of people that realize this. When TAPR spearheaded the big push to confiscate this frequency nationwide, it was pushed as a nationwide frequency.... I see continual references to it as a backbone/network... even by some of the major players to this day. This is basic packet 101 stuff that even the 145.01mhz folks realized years ago. But the misunderstanding continues to this day.

So, where should the services go? IMHO, a quick and dirty solution would be to set up crossband digi's (NOS supports this) at major node sites that dump the wide's over to another band.... lets say 440. Then our internet server feed off this frequency. Still very lossy but would remove the services from the mayhem of 144.39. This could tie all the lan's together.

But lets look at the proposal that was made.... a direct 145.01 to 144.39 gateway. Seems bad to alot of folks. But lets compare that idea to having all those users "turn the dial" and come directly on 144.39. First, a couple of assumptions. The average node/digi will be a optimal site... good antenna, good height, and maybe even RF engineered properly (cavity, ect). So it will hear well. The average user will not have such a good antenna, might be using a HT (intermod), and not be in the best location. Likely they will need to use a string of digi's to even approach the coverage area of the node/digi site. And of course, one given is everyone is following network rules... be it by gentlemen's agreement or enforced via software (preferred).

OK, so we have our givens. So, the question remains, would it be better for the user to QSY to 144.39, or use a gateway from another frequency? Its my contention the gateway would be far better choice. And here is why. If the user was on 145.01, sends out a beacon posit, of course it won't be heard

on 144.39. So that opens a slot on 144.39 that otherwise wouldn't exist. OK, now the packet hits the crossband digi on 145.01, which is at a good site. It decodes it, then it waits for DCD to drop on 144.39. However since it is such a good site, it hears more. So it waits longer than most users stations would (it is a hidden terminal to no-one). So then it finally sends the packet out and all the target station(s) hear it the first time.

But if the user had QSY'ed to 144.39, he/she would have used at least one digipeater to get the same coverage as our crossband example. What this means is that instead of taking ONE slot up on 144.39, they are taking TWO+ slots up on 144.39. And this doesn't even consider the collision factor on 144.39 due to the user station being a hidden terminal to many other users outside of a typical packet lan footprint one might see on a conventional packet channel.

We, as APRS users, need to start to think outside the box. As far as I am concerned, with regards to RF side, APRS is at the same point in 1984 that these so called "old timers" were at. Yes, we have fancy GUI's and internet connectivity.... but where is the RF? We have alot to learn from these "old timers". Its all in front of our face, we just need the courage to grab it and the will to take a chance. A good start for anyone interested would be to purchase the complete set of CNC/DCC notes and read them from cover to cover, in particular the first 10 years where all the fundamental stuff is. Also look outside the United States..... TAPR didn't start packet radio .... it was the Canadians. They were going at it in 1979 (and do you know what a "Vancouver board" is? I've used one...). Some were running at 2400 baud at that time and if you can find any of their publications, lots of good stuff in it. The best ham publication regarding packet radio to this day, by far, is "Packet Radio" published in 1981 by TAB books. It doesn't treat the reader like an idiot as most modern publications do, and contains some great fundamental theory, much of which we are ignoring in APRS.

And today, we should look at what the Europeans are doing.... in particular the Germans. DAMA, IMHO, would scale quite well in the APRS one to many environment.... while not directly for posits, but for mission critical data and messaging. DAMA is a dynamic polling system for packet radio that allows a user to be assigned a time slot. It is in the here and now. While it controls connected mode, I imagine it would not be to much of a stretch to get it to also schedule UI mode (beacons) as well. Of the poll could contain the posit, which the node then sends out when the channel is clear (or during the next poll to the next station).

It's all out there for the taking.

73

Jeff

---

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## 104. [aprssid] Subject: You've come a long way baby

From: "Tom Clarke" <fclarke@erols.com>  
Date: Tue, 5 Dec 2000 17:51:49 -0500  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-123039-2000.12.05-17.04.29--lyris.aprssid@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> Subject: You've come a long way baby  
> From: Bob Bruninga <bruninga@usna.edu>  
> Date: Sat, 2 Dec 2000 10:35:57 -0500 (EST)  
> X-Message-Number: 3  
>  
> While doing this years Army/Navy game football run (the oldest annual APRS  
> event since 1991) I realized how easy it has become.

> snip snip

> > Highlights:  
>  
> snip snip

You forgot the most important highlight - - - NAVY WON!!

Fly Navy!

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## 105. [aprssig] APRSdos and STREETS-ON-A-DISK

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Tue, 5 Dec 2000 17:57:54 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-123042-2000.12.05-17.10.02--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I just updated APRS-STZS on tapr with the latest APRSdos to STREETS interface. Only those operators that use STREETS at their EOC or otherwise have a copy would be interested. Be sure to see the README\STREETS.TXT file.

STREETS-ON-A-DISK is a mapping program that pre-dates GPS but is very popular among county and community service organizations. It is pricey for amateur use, but if your organization already uses it, then this version of APRSdos will interface to it.

This latest version allows APRSdos to drive multiple networked copies of STREETS running on a network.

de WB4APR, Bob

---

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## 106. [aprssig] MFJ 1270B info.

From: Valentino Sarro <[sarro@home.com](mailto:sarro@home.com)>  
Date: Tue, 05 Dec 2000 16:15:07 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-123044-2000.12.05-17.27.00--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I have located an MFJ 1270B TNC for a reasonable price and wonder if anyone can tell me if it would be good for APRS.....what do I need to know about EEPROM version, etc.

I have been so used to Kantronics TNCs that this item is foreign to me.

If you can provide some insight regarding the MFJ 1270B, please email direct to [ve6szz@rac.ca](mailto:ve6szz@rac.ca), thanks.

Tino, VE6SZR  
Calgary, Alberta

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## 107. [aprssig] APRS Telemetry

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Tue, 5 Dec 2000 18:16:33 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: [cseiwald@idir.net](mailto:cseiwald@idir.net)  
Message-ID: <LYR842-123045-2000.12.05-17.30.56--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

If you use APRS telemetry or ever intend to, read this.

The Kantronics KPC-3+ puts out an APRS TELEMETRY packet once every N\*10 seconds of the form MYCALL>APRS,DIGIS:T#nnn,111,222,333,444,555,bbbbbbb

Where 111,222... etc are five analog values 0-255 of the 5 analog inputs



of the KPC-3. These are ideal for reading your battery voltage, Temperature, Current or solar charging or whatever. The bbbbbb are 8 on/off status bits of the I/O port on the CPU.

This is a very powerful capability for KPC-3+'s at remote sites. The KPC-3+ also has 2 or more COMMAND lines that can be used to turn things on or off remotely.

This telemetry is displayed on the TELEMETRY page in most versions of APRS. This format is identical to that used in the Mic-E and Mic-Lite and MIM also.

Some weeks ago, I asked if anyone wanted to see the TELEMETRY in the KPC-9612 also to send a note to Kantronics. Apparently no one responded. So I guess no one but me uses APRS telemetry.

Thus it is difficult to convince Kantronics to add the TELEMETRY command to the 9612 if there is no demand. I'm not asking for ballot stuffing, but if you want it, you have to tell them that you want it...

Let me phrase the question differently.  
Do you use APRS telemetry?  
Will you ever?  
Will you ever use 9600 baud or the KPC-9612?

If you think so, then give Kantronics some feedback. I have included them a copy on this email, so just REPLY to ALL on this email and they should see it...

Thanks.  
Bob

---

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## 108. [aprssig] Re: Packet on 145.010 to APRS

From: Joel Maslak <jmaslak@antelope.net>  
Date: Tue, 5 Dec 2000 16:20:58 -0700 (MST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123046-2000.12.05-17.31.24--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Tue, 5 Dec 2000, Jeff King wrote:

> The suggestions would REDUCE the load on 144.39... not increase it. By  
> having users on lan's other than 144.39, and the attendant reduction

Good stuff! Since we've opened up this can of worms, let's talk a little about what would make APRS more usable.

APRS currently QRMs many voice operations. You can't operate a cheap APRS setup (tx AND rx) and cheap voice setup in the same command post without a lot of work, as the APRS desenses the voice stuff and is basically annoying to the voice opps (to say nothing about the hidden transmitter issue that happens when voice users desense the APRS rig!).

It would be very useful if there existed an APRS LAN on a different \*BAND\* that was linked into 144.39. It might not even be bad (in the US) to use something like 220 MHz and coordinate this on a local level (although 440 rigs are much easier to locate). This way, the fixed dual-purpose (voice/APRS) stations could run both APRS and voice at the same time... We would keep 144.39 for the crystal controlled rigs and also for the mobile user (and anyone else who might have to set up a station without knowing about the local coordination). However, most APRS users stay within their coverage most of the time.

A different band is useful even for dedicated packet-only sites, as while the packet system handles desense, intermod, etc a lot better than voice rigs (the operator doesn't notice), it is still there and is still bad for communications! A 145.01 <-> 144.39 gateway probably should use cavities...

--

Joel Maslak

N7XUC

---

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---

## 109. [aprssig] Re: Assigning SSIDs according to capabilities

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Tue, 5 Dec 2000 18:47:59 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-123051-2000.12.05-18.00.46--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Tue, 5 Dec 2000, Bill Diaz wrote:

> Does this include SSID > 15 or Alpha SSID's?

AX.25 does not permit any SSID>15 or alpha. We decided to stick with that limitation.

---

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Questions regarding the SIG go to the SIG administrator: [wallou@tapr.org](mailto:wallou@tapr.org)

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## 110. [aprssig] Re: Assigning SSIDs according to capabilities

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Tue, 5 Dec 2000 18:50:48 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-123053-2000.12.05-18.04.54--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Tue, 5 Dec 2000, Mike Musick wrote:

> >There is no spec. You can use ANY SSID for anything you want.  
>  
> My gosh, how soon we forget!  
>  
> SSID has long been the last resort for symbol assignment.

Errr. Your right.. Thanks mike!

But only for stations sending RAW NMEA data... (at least that is how APRSdos does it)...

---

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---

## 111. [aprssig] Re: Packet on 145.010 to APRS

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Tue, 5 Dec 2000 19:16:21 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-123056-2000.12.05-18.30.34--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Tue, 5 Dec 2000, Joel Maslak wrote:

> APRS currently QRM's many voice operations. You can't operate a cheap  
> APRS setup (tx AND rx) and cheap voice setup in the same command post  
> without a lot of work, as the APRS desenses the voice stuff and is  
> basically annoying to the voice opps...

Absolutely true. APRS ops must plan for this. My approach is 150' (or more) of RG-58 and a small 2m beam. I put the beam on a tripod 150 feet away, pointed at the local DIGI and operate at very low power. The 6 dB of loss in the coax gives me some isolation from front end overload and intermod. Since my tripod is on the ground and all their antennas are pulled up as high as possible, I also then have some vertical separation too...

bob

---

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## 112. [aprssig] Re: Assigning SSIDs according to capabilities

From: Bill Diaz <billdiaz@megsinet.net>  
Date: Tue, 5 Dec 2000 18:15:22 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123057-2000.12.05-18.30.49--lyris.aprssig@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bob,

Users on APRServe use SSID's > 15 and Alpha SSID's. Many of the servers use Alpha. Examples include -IP -yyd etc. Sure would be nice if all users adhered to the same standard.

Bill KC9XG

On Tuesday, December 05, 2000 5:48 PM, Bob Bruninga [SMTP:bruninga@usna.edu] wrote:

> On Tue, 5 Dec 2000, Bill Diaz wrote:  
>  
> > Does this include SSID > 15 or Alpha SSID's?  
>  
> AX.25 does not permit any SSID>15 or alpha. We decided to stick with that  
> limitation.

---

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## 113. [aprssig] Re: APRS Telemetry

From: David VanHorn <dvanhorn@cedar.net>  
Date: Tue, 05 Dec 2000 18:09:43 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: cseiwald@idir.net  
Message-ID: <LYR842-123058-2000.12.05-18.46.10--lyris.aprssig@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>Let me phrase the question differently.  
>Do you use APRS telemetry?  
>Will you ever?  
>Will you ever use 9600 baud or the KPC-9612?

I do, but only with the KPC3.  
I'd be really pissed if I upgraded to the 9612, and then found out it didn't have that ability.. One dosen't generally expect to loose features on an upgrade.

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

---

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---

## 114. [aprssig] Re: Packet on 145.010 to APRS

From: "Chris Rose" <kb8uih2@home.com>  
Date: Tue, 5 Dec 2000 19:40:29 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123065-2000.12.05-19.01.25--lyris.aprssig@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hello,

I would like to offer my \$0.02 worth on this. I have a Radio Shack two meter transceiver on a three element beam and a Kenwood TH D7 with an amp running about 20 watts with both antennas about 25' up(about 2' apart) at home. The RS rig is tone squelched on my local repeater frequency and the

Kenwood is on 144.39 for APRS. I am having no problem whatsoever with this setup(as far as the packet interfering with the voice rig-I can't say anything about the voice rig interfering with the packet, at least no discernible noise has been heard on the Kenwood). I have not run the amp at full tilt(45+ watts) to see if this makes any difference. I recently heard of a packet tnc(KPC 3) making white noise on a Kenwood public service band radio in the local County emergency service vehicle, however. We have to debug that situation now.

Thanks,

----- Original Message -----

From: "Joel Maslak" <jmaslak@antelope.net>

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Sent: Tuesday, December 05, 2000 6:20 PM

Subject: [aprssig] Re: Packet on 145.010 to APRS

> On Tue, 5 Dec 2000, Jeff King wrote:

>

> > The suggestions would REDUCE the load on 144.39.... not increase it. By  
> > having users on lan's other than 144.39, and the attendant reduction

>

> Good stuff! Since we've opened up this can of worms, let's talk a little  
> about what would make APRS more usable.

>

> APRS currently QRM's many voice operations. You can't operate a cheap  
> APRS setup (tx AND rx) and cheap voice setup in the same command post  
> without a lot of work, as the APRS desenses the voice stuff and is  
> basically annoying to the voice opps (to say nothing about the hidden  
> transmitter issue that happens when voice users desense the APRS rig!).

>

> It would be very useful if there existed an APRS LAN on a different \*BAND\*  
> that was linked into 144.39. It might not even be bad (in the US) to use  
> something like 220 MHz and coordinate this on a local level (although 440  
> rigs are much easier to locate). This way, the fixed dual-purpose  
> (voice/APRS) stations could run both APRS and voice at the same time...  
> We would keep 144.39 for the crystal controlled rigs and also for the  
> mobile user (and anyone else who might have to set up a station without  
> knowing about the local coordination). However, most APRS users stay  
> within their coverage most of the time.

>

> A different band is useful even for dedicated packet-only sites, as while  
> the packet system handles desense, intermod, etc a lot better than voice  
> rigs (the operator doesn't notice), it is still there and is still bad for  
> communications! A 145.01 <-> 144.39 gateway probably should use  
> cavities...

>

> --

> Joel Maslak

> N7XUC

>

>

> ---

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## 115. [aprssig] Re: [ Jeff King ] Re: Packet on 145.010 to APRS

From: "Gregg G. Wonderly" <gregg@skymaster.c2-tech.com>

Date: Tue, 05 Dec 2000 19:17:06 -0600

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>

Message-ID: <LYR842-123079-2000.12.05-19.35.52--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

>Mike:

>Yes, one

>could "turn the knob" as you suggest, but this will only ADD to the problem

>and make a LESS flexible system.

Well, what we really need is a standard interface for software to talk to

radios  
and control their VFO or memory channels (preferably VFO with multi band support).

Just like KISS mode to a TNC starts to make it possible for software to use arbitrary TNCs, until we can control the radio's frequency directly, we can't get past the nonsense to writing real solutions.

I am working on a new APRS infrastructure written in Java which I hope to freely distribute and make into a foundation that allows all who want to contribute code to APRS in the form of custom applications. The infrastructure will take care of all the packet stuff, and the application framework will take care of providing a place for the application to have a UI and to interact with other applications, sharing the APRS data flowing into the framework.

Now, I want to do some things with frequency changes so that I can in fact do APRS, need some information, change frequency and do connected mode to transfer a file and then QSY back to APRS to send the answer back. I have a THD7A(G) that I can create such code to utilize, but it would be very ugly to have to do this on other radios to and try and support the infinite range of mechanisms that all the manufactures have created.

I think this is an issue to deal with. But unfortunately, given the way that HAMS hold onto equipment and keep it alive, it would be after my lifetime I am afraid before there would be a standard that would start to be widely used.

Java could provide a intermediary way though (other languages can do this to, I know...) We could create an interface describing the actions we want to do, and then encourage the manufactures to make implementations of that interface available for their customer's use. This would be like a device driver implementation that would make it start to be possible to have a standard interface to radio frequency changing and to also deal with TNC configuration changes.

I have created an egrouops web site at [jeaprs@egroups.com](mailto:jeaprs@egroups.com) that I'd like to encourage you to join. This list is for those interested in talking about things APRS/packet that are beyond what we currently have or are not implemented usably in the existing APRS applications. If you know Java, I would be interested in any help that people can contribute work on JeAPRS too. If people would like to discuss these issues here, that's fine with me, I am just trying to provide a forum where changes can be discussed without having to worry about being bashed for thinking outloud...

Finally, one big remaining issue for me is that I can not get KISS to transmit a recognizable packet on my THD7A(G). Receiving TNCs flicker, but do not show the packet. If anyone can provide me help with this issue I'd appreciate it. I do not know what else to try. I've included an example byte stream in previous emails, and can supply it to anyone that can lend a hand.

-----  
[gregg@c2-tech.com](mailto:gregg@c2-tech.com) (C2 Technologies Inc)

---  
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## 116. [aprssid] New IGate in Arkansas!

From: Jamie Hutches <[jmhutches@Harding.edu](mailto:jmhutches@Harding.edu)>  
Date: Tue, 05 Dec 2000 19:33:05 -0600  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-123081-2000.12.05-19.40.54--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-123081-2000.12.05-19.40.54--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Well my attempts at setting up the aprsdSRC Igate here in Central Arkansas were sucessful, and the first packets igated from INet to RF were Freeze warnings for Florida!!!! LOL! I have enabled the IGate to gate NWS\_WARN packets to RF around here in thehope that someday we will have a server hooked to the weather wire that will send all warnings for Arkansas to APRServe and then to all of us Central Arkansas APRS Users via the aprsdSRC IGate.

It is a Pentium 90, running RedHat Linux 6.2, and aprsd 2.1.4. The internet connection is via my school's LAN which is connected to the internet via 2 T-1 lines. It also has redundant connections to 2 APRS servers so in case one goes down, there is no interruption of service!  
I am very excited about this and I hope to tweak the machine to pass other

packets of interest from the internet to RF around here! Any helpful tips on helping the server run smoothly by other IGate ops would be appreciated! Feel free to test it out and let me know how it works!  
Thanks,  
Jamie Hatches, KD5G0B  
Sysop, aprsdSRC APRS IGate Searcy, Arkansas

---

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## 117. [aprssig] Re: MFJ 1270B info.

From: WA8LMF1@aol.com  
Date: Tue, 5 Dec 2000 20:50:28 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123083-2000.12.05-20.09.18--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In a message dated 12/5/2000 3:31:50 PM Pacific Standard Time, sarrov@home.com writes:

<< I have located an MFJ 1270B TNC for a reasonable price and wonder if anyone can tell me if it would be good for APRS.....what do I need to know about EEPROM version, etc.

I have been so used to Kantronics TNCs that this item is foreign to me.

If you can provide some insight regarding the MFJ 1270B, please email direct to ve6szz@rac.ca, thanks.

Tino, VE6SZR  
Calgary, Alberta

>>

It definitely has APRS applications. If the firmware is reasonably recent, you can use it as an "end-users" TNC where the APRS smarts are provided by the program running on the attached PC.

Since the unit is a TNC-2 clone, you can replace it's normal 27256 EPROM firmware with an EPROM containing the freeware UIDIGI code and convert it into a dedicated smart standalone APRS digipeater. That is, an APRS digipeater that doesn't require a connected PC to function -- making it much better for remote unattended sites...

And I might remind the list that I now have a prom programmer and stand ready to burn UIDIGI roms for anyone interested.

---

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---

## 118. [aprssig] New igate for Central West Virginia

From: Qrpvhf@aol.com  
Date: Tue, 5 Dec 2000 21:22:49 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123088-2000.12.05-20.34.59--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hello everyone,

We now have another Igate now covering the central part of the state of West Virginia. KB8A0B-1 owned/operated by Rich Clemens has by gracious enough to setup a MacAPRS Igate station at the West Virginia Wesleyan College, where he is a professor. It is running 24/7 since Saturday and seems to doing fine.

It is visible to various digi's such as KB8CVP-7, N8YIB-2, as well as the Pittsburgh,PA area by two hops W3EXW,KB8CVP-7.

Its call is KB8A0B-1 and is just another notch out of the ongoing project to complete full APRS coverage the entire North2South length of the state of West Virginia.

73's and enjoy...  
Jacob Tennant,K8JWT

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---

## 119. [aprssig] Re: Packet on 145.010 to APRS

From: "Robert Donnell" <kd7nm@pugetsound.net>  
Date: Tue, 5 Dec 2000 18:45:51 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123091-2000.12.05-20.58.13--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi Chris, and all

Chris Rose is rumored to have said:

>Hello,  
>I would like to offer my \$0.02 worth on this. I have a Radio Shack two  
>meter transceiver on a three element beam and a Kenwood TH D7 with an amp  
>running about 20 watts with both antennas about 25' up(about 2' apart) at  
>home. The RS rig is tone squelched on my local repeater frequency and the  
>Kenwood is on 144.39 for APRS. I am having no problem whatsoever with this  
>setup(as far as the packet interfering with the voice rig-I can't say  
>anything about the voice rig interfering with the packet, at least no  
>decernible noise has been heard on the Kenwood).

You must have an very strong signal from your local repeater if there's no observable desense from the 20-watt APRS transmitter's antenna located only two feet from the antenna for the radio listening to the repeater. You would not have the same luck using simplex over any significant distance, or using repeaters that are further away. Even if there were no receiver overload happening (and I'm sure there is), the broadband noise from the APRS transmitter + amplifier is probably in the 10-1000 uW range. You might be able to notice desense on the radio listening to the repeater by watching the signal strength display when the APRS radio transmits - you might see it go down.

The desense effects to your APRS station (which ARE hard to observe) could be reduced by separating your antennas vertically - but this only works well if they are directly above/below each other. Horizontal separation is much less effective (dB of attenuation vs. feet of separation) and quickly dominates the equation if the antennas are horizontally offset.

>I have not run the amp at  
>full tilt(45+ watts) to see if this makes any difference.

This and two feet of antenna separation could burn out the receiver front end of the radio "benefiting" from the proximity of 45 watts. I had this happen to an Alinco handheld's receiver and a 50-watt transmitter about 6 feet apart on the roof of my van.

>I recently heard  
>of a packet tnc(KPC 3) making white noise on a Kenwood public service band  
>radio in the local County emergency service vehicle, however. We have to  
>debug that situation now.

Make sure the serial data cable and the radio cable are both shielded, that the shields are connected to the TNC (connector shells screwed down) and wrap the TNC power cable through a ferrite core - preferably not the split core variety. They are a lot less effective. If that doesn't clean it up, try ferrite on the radio and serial cables. You can test to see if the noise is coming out of the TNC via those routes by disconnecting the serial and radio cables, then reconnecting them one at a time.

Hope that helps,

73, Bob

-----  
Robert Donnell, KD7NM (206) 542-7661  
18828 Midvale Ave N mailto:kd7nm@pugetsound.net  
Shoreline, WA 98133  
Western Washington Amateur IP Address Coordinator  
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## 120. [aprssig] Batteries in General (was FT-8500 died - A Resolution)

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Tue, 05 Dec 2000 21:00:24 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123092-2000.12.05-21.12.38--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Today I went to Batteries Plus and got a lithium coin battery for the FT-8500 and they do indeed have the equipment to spot-weld solder tabs onto batteries. So if you ever need solder tabs added to a battery, you might want to check with them. The best part is that adding the tabs doesn't seem to add much to the cost. I got out of there spending less than 3 bucks including tax. The new battery is soldered in and the FT-8500 is running well again. Checked into the local Sioux Empire Net tonight with the radio - no problem.

I'm very pleased with the people at the local Batteries Plus, and although they don't always have the lowest prices, they do stock a lot of hard-to-find batteries as well as all the gel-cells an APRSer could ever want. They even had the very odd battery that my car's anti-theft system uses and they even stock the old Minitor I rechargeable batteries.

<http://www.batteriesplus.com/>

With the really cold weather setting in, some of you, no doubt, will be heading off to get a new car battery soon. While at Batteries Plus I noticed something "new." Champion has licensed the the Absorbed Glass Mat Spiracell battery technology from Optima and is making/distributing them in conjunction with GNB/Exide. This means that a once hard-to-find battery is becoming mainstream. I have a feeling that you'll be seeing these as OEM car batteries soon.

<http://www.gnb.com/ourstory/vortex.html>

I've had an Optima "Yellow Top" deep cycle battery in my car for two years now. I had to special order it from a local car parts dealer and it cost about 70% more than a high-quality wet-cell battery would cost, but I firmly believe it is the best "car" battery I've ever owned (and I've owned quite a few - including some very expensive Interstate batteries).

<http://www.optimabatteries.com/main.htm>

I hate to sound like an advertisement, but after spending many years replacing car batteries every 6 to 14 months, I'd gotten quite tired of it.

As usual, I have no business affiliations with any of the above mentioned companies. Although I am originally from Toledo and have a warm spot for the Champion Sparkplug Company. But much like me, the Stranahans and their company, Champion, have fled Toledo... :)

73,

Mark  
KC7BXS

---

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---

## 121. [aprssig] Re: Packet on 145.010 to APRS

From: "Robert Donnell" <kd7nm@pugetsound.net>  
Date: Tue, 5 Dec 2000 19:15:48 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123093-2000.12.05-21.27.59--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi Bob and all,

Bob Bruninga wrote:

>Absolutely true. APRS ops must plan for this. My approach is 150' (or  
>more) of RG-58 and a small 2m beam. I put the beam on a tripod 150 feet  
>away, pointed at the local DIGI and operate at very low power. The 6 dB  
>of loss in the coax gives me some isolation from front end overload and  
>intermod. Since my tripod is on the ground and all their antennas are  
>pulled up as high as possible, I also then have some vertical separation  
>too...



The 150' might be enough to offset the difference in effectiveness between vertical and horizontal antenna separation. However with the coax commonly used (and abused) to wire up comm vans, etc. (like RG58 and RG8) you probably create more potential for desense due to radiation from the radio and coax inside the comm van than due to the signal intentionally radiated from the antenna.

I think a better solution would be to move the entire APRS RF/TNC package out to the antenna site and use a serial cable (3-wire extension cords with DB-9/25 connectors? Telephone wire?) to connect it with the laptop in the comm van. You might not be able to use 19.2 kBaud, but what the heck! With a batteries or other appropriate power supply (like your car) to run the radio, you can even prevent the serial cable from acting as an antenna by using ferrite RFI suppression on both ends of the cable. Glad I could run a receive-only operation at the Seattle Marathon, but it would have helped knock down the desense to the APRS receiver to get its antenna away from the vehicle. We had more than enough desense between the various voice channels as it was.

73, Bob

---

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---

## 122. [aprssig] Re: New IGate in Arkansas!

From: Mark Fellhauer <[sparkfel@primenet.com](mailto:sparkfel@primenet.com)>  
Date: Tue, 05 Dec 2000 22:10:47 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-123097-2000.12.05-22.23.00--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-123097-2000.12.05-22.23.00--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Wow an new I-gate Arkansas and Governor Huckabee getting a new mobile home to live in. You guys are movin' up! :)

73,

Mark  
KC7BXS

At 07:33 PM 12/5/00, Jamie Hutches wrote:

>Well my attempts at setting up the aprsdSRC Igate here in Central Arkansas  
>were sucessful,

---

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---

## 123. [aprssig] Re: APRS serial wiring

From: K3for@aol.com  
Date: Wed, 06 Dec 2000 08:23:33 EST  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-123144-2000.12.06-07.35.43--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-123144-2000.12.06-07.35.43--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Robert Donnell" <[kd7nm@pugetsound.net](mailto:kd7nm@pugetsound.net)> wrote:

>>use a serial cable (3-wire extension cords with  
DB-9/25 connectors? Telephone wire?) to connect it with the laptop in the comm van.

Radio Shack and others sell 50-foot spools of 3-conductor "intercom" wire that is ideal for thin serial (non-handshaking) cables. And, it's stranded instead of solid conductor, so less likely to crimp or break.

Skip/K3FOR  
Annapolis

---

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---

## 124. [aprssid] Re: APRS Telemetry

From: Robert Stessel <stessel@maine.edu>  
Date: Wed, 06 Dec 2000 13:22:04 +0000  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-123145-2000.12.06-07.47.09--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 18:16 12/05/2000 -0500, you wrote:  
>If you use APRS telemetry or ever intend to, read this.  
>  
>  
>Let me phrase the question differently.

>Do you use APRS telemetry?  
Not Yet.

>Will you ever?  
Definitely, soon!

>Will you ever use 9600 baud or the KPC-9612?  
Probably not.

---

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---

## 125. [aprssid] Re: APRS serial wiring

From: "Mike Yetko" <myetko@insydesw.com>  
Date: Wed, 6 Dec 2000 08:44:45 -0500  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Cc: <aprssid@lists.tapr.org>  
Message-ID: <LYR842-123148-2000.12.06-07.56.29--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I've found it's real easy to use phone cord. The oval/flat 4 conductor stuff. You can usually find 'fell off truck' stuff at flea markets for \$1 a card for 100 foot cords.

It's light, it's flat, and it's cheap.

You can even get DB-xx connectors with RJ-11/13 jacks on the back to wire to if you don't want to cut the ends off the cords.

On the other hand... When many businesses change, a lot of time the old wiring is just chucked. About 2 years ago I picked up a lot of wiring. I got one bundle that had 5 CAT5 and 5 CAT3 runs in the bundle, all were over 150' each. Then I got other bundles of about 100 feet, and number under 80 feet. Each bundle was 5 runs of CAT5 and 5 of CAT3. (I have no idea why... They were using the CAT3 as phone, and the CAT5 for ethernet, although in use they were interchangeable.)

That can be hard to find though, as a lot of remodelers just take big cutters and 'cut out' the wire at every convenient spot for quick removal. By the time it gets to where you can do any 'dumpster diving' it's already been cut. But if you can 'get in' there take it out, then you can get the long pieces.

And that 150' bundle? The only reason it was that short is I didn't have a key to the next area and had to slice the wires at the firebreak... That salvage run also got me four of the "Mod-Tap" RJ-45 wall panels, each with 6 of the 8-jack CAT5 panels in them.

My house is all CAT5 now, to every room with multiple runs, from a central panel in the basement. And a couple of friends houses. And a couple neighbors... I even made my own 'push down' tool for the panels. (Out of an OLD razor blade)

Mike

> Robert Donnell" <kd7nm@pugetsound.net> wrote:  
>  
> >>use a serial cable (3-wire extension cords with  
> DB-9/25 connectors? Telephone wire?) to connect it with the laptop in  
the comm van.  
>  
> Radio Shack and others sell 50-foot spools of 3-conductor "intercom"  
wire that is ideal for thin serial (non-handshaking) cables. And, it's  
stranded instead of solid conductor, so less likely to crimp or break.  
>  
> Skip/K3FOR  
> Annapolis

---

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---

## 126. [aprssig] ADMIN: APRSSIG

From: "Horzepa, Stan" <Stan\_Horzepa@adc.com>  
Date: Wed, 6 Dec 2000 07:48:28 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123150-2000.12.06-08.09.39--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

(This message is posted on the APRSSIG on a monthly basis.)

### PURPOSE

The purpose of the APRSSIG is to provide a forum for folks interested in discussing APRS, in general.  
(Other TAPR SIGs are available for discussing specific APRS topics, for example, APRSSAT for APRS  
satellite applications.)

### POSTING MESSAGES

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### APRSSIG RULES

The APRSSIG has a few simple rules:

- . Be courteous. Abusive, insulting, or rude behavior demonstrated towards another list member is a violation of this rule.
- . Stick to the subject, i.e., APRS. Subjects that are only tangentially related to APRS (like "what kind of car should I buy for my APRS tracker?") may be considered off-topic. If you start a message with "this is off-topic..." then you are violating this rule.
- . Be succinct when composing a message. (The APRSSIG software has been optioned to limit the length of each message.)
- . When quoting a previous message, only quote the parts of that message you are referencing. (The APRSSIG software has been optioned to limit the length of a quote.)
- . Do not send messages in HTML or Rich Text format.
- . Do not send attachments.
- . Cross-posting is not permitted. (The APRSSIG software has been optioned to prevent cross-posting.)
- . The APRSSIG administrator reserves the right to suspend or ban any list member who violates these rules.

### UNSUBSCRIBING

To unsubscribe from the APRSSIG, follow the directions you will find at the bottom of each message you receive from the APRSSIG.

### QUESTIONS, COMMENTS, ETC.

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Stan Horzepa, WA1LOU, wallou@tapr.org

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## 127. [aprssig] Re: SO-35 Satellite predictions (fwd)

From: Bob Bruninga <bruninga@usna.edu>  
Date: Wed, 6 Dec 2000 11:15:24 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123177-2000.12.06-10.27.39--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Wed, 6 Dec 2000, Chris Schwab predicted S035 as seen from N4BSA, Largo  
FLorida 28.530 N/ 82.478 W

>  
> 06-Dec-00 04:12:38 EST S to N  
> 05:52:46 EST S to N  
> 16:25:19 EST N to S  
> 18:04:24 EST N to S

Looks good to me. This pattern is usual. SUNSAT is coming over  
everywhere around 3 to 6 AM and PM local time everywhere. I move my D700  
mobile to SUNSAT every night and U022 in the morning enroute to work.  
Then in the afternoon, I put it back to SUNSAT and in the evening on U022.  
See ya there.

Since my driveway is blocked to the south, I use the knowledge of which  
way it is going to then tune to +5 or - 5 doppler to be optimum for the  
downlink to the north sky.

Bob

---

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## 128. [aprssig] RE: New IGate in Arkansas!

From: "Scott-KC5JGV" <kc5jgv@arrl.net>  
Date: Wed, 6 Dec 2000 10:54:03 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123179-2000.12.06-11.10.13--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

It looks good up here in north central Arkansas and we received some snow  
advisories this morning. Good job!

Scott

-----Original Message-----

From: bounce-aprssig-14464@lists.tapr.org  
[mailto:bounce-aprssig-14464@lists.tapr.org] On Behalf Of Jamie Hutches  
Sent: Tuesday, December 05, 2000 17:33 PM  
To: TAPR APRS Special Interest Group  
Subject: [aprssig] New IGate in Arkansas!

Well my attempts at setting up the aprsdSRC Igate here in Central Arkansas  
were sucessful, and the first packets igated from INet to RF were Freeze  
warnings for Florida!!!! LOL! I have enabled the IGate to gate NWS\_WARN  
packets to RF around here in thehope that someday we will have a server  
hooked to the weather wire that will send all warnings for Arkansas to  
APRServe and then to all of us Central Arkansas APRS Users via the aprsdSRC  
IGate.

It is a Pentium 90, running RedHat Linux 6.2, and aprsd 2.1.4. The internet  
connection is via my school's LAN which is connected to the internet via 2  
T-1 lines. It also has redundant connections to 2 APRS servers so in case

one goes down, there is no interruption of service!  
I am very excited about this and I hope to tweak the machine to pass other packets of interest from the internet to RF around here! Any helpful tips on helping the server run smoothly by other IGate ops would be appreciated!  
Feel free to test it out and let me know how it works!  
Thanks,  
Jamie Hutches, KD5G0B  
Sysop, aprsdSRC APRS IGate Searcy, Arkansas

---  
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---

## 129. [aprssig] Re: APRS serial wiring

From: "Brian B. Riley" <brianbr@macconnect.com>  
Date: Wed, 6 Dec 2000 15:45:24 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapir.org>  
Message-ID: <LYR842-123202-2000.12.06-14.57.41--lyris.aprssig#tapir.org@lists.tapir.org>  
Rendered body type: text/plain

Rat Shack part number ???

> -----Original Message-----  
> From: K3for@aol.com  
> Sent: Wednesday, December 06, 2000 8:24 AM

[snip]

> Radio Shack and others sell 50-foot spools of 3-conductor  
> "intercom" wire that is ideal for thin serial  
> (non-handshaking) cables. And, it's stranded instead of  
> solid conductor, so less likely to crimp or break.

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---

## 130. [aprssig] Re: APRS serial wiring

From: "Keith Kotch" <kotch@mpinet.net>  
Date: Wed, 6 Dec 2000 16:11:14 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapir.org>  
Message-ID: <LYR842-123205-2000.12.06-15.22.38--lyris.aprssig#tapir.org@lists.tapir.org>  
Rendered body type: text/plain

PN 278-871

Keith  
Keith Kotch  
Ambient Design Consultants 407-673-1901  
I'm a Ham too, Amateur Radio Call: KF4BXT

----- Original Message -----  
From: Brian B. Riley <brianbr@macconnect.com>

Rat Shack part number ???

> -----Original Message-----  
> Radio Shack and others sell 50-foot spools of 3-conductor  
> "intercom" wire that is ideal for thin serial  
> (non-handshaking) cables. And, it's stranded instead of  
> solid conductor, so less likely to crimp or break.

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---

### 131. [aprssig] Re: Packet on 145.010 to APRS

From: Jeff King <jeff@aerodata.net>  
Date: Wed, 06 Dec 2000 16:41:09 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123216-2000.12.06-15.47.58--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

"Gregg G. Wonderly" wrote:

> >Yes, one  
> >could "turn the knob" as you suggest, but this will only ADD to the problem  
> >and make a LESS flexible system.

> Well, what we really need is a standard interface for software to talk to  
> radios  
> and control their VFO or memory channels (preferably VFO with multi band  
> support).

> Just like KISS mode to a TNC starts to make it possible for software to use  
> arbitrary TNCs, until we can control the radio's frequency directly, we can't  
> get past the nonsense to writing real solutions.

"Turning the knob" be it manual or software controlled, if the only access is a single two meter 1200 baud frequency, is no solution. Ideally you would want a network of different RF lans, similar to a cellular system, in which each lan is tied together via a RF or internet backbone. So not only do you want frequency agile radios, but you also want the network infrastructure.

The RF network infrastructure to some degree already exists.... we just have to be brave enough to use technology outside the aprs domain (i.e. get over NIH). The frequency agile radios do not yet exist on a widespread basis. This is not a reason not to start developing/using a RF network infrastructure.

-Jeff

---

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---

### 132. [aprssig] Amateur Satellites Slated

From: Bob Bruninga <bruninga@usna.edu>  
Date: Wed, 6 Dec 2000 17:12:23 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123222-2000.12.06-16.24.32--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

NASA News <snipped>

Kodiak Star, the first planned orbital launch from the new Kodiak Launch Complex in Alaska will be a NASA collaborative mission with the Department of Defense (DoD). The payload consists of four small satellites to be launched aboard a Lockheed Martin Athena I launch vehicle.

NASA's spacecraft in the Kodiak Star mission is Starshine 3, about 1 meter in diameter which is covered with ... front-surface aluminum mirrors polished by participating grade schools from all over the world.

PICOsat, the primary DOD Satellite... carries... four experiments in the areas of vibration isolation, ionospheric observations and polymer batteries... built at Surrey Satellite Technology Limited in the UK.

The second DoD spacecraft is a Prototype Communications Satellite (PCSat), operating in the amateur radio band, designed and manufactured by Midshipmen of the United States Naval Academy. It will become part of the amateur radio community's Automatic Position Reporting System (APRS) in low earth orbit receiving digitized identity and position data from amateur radio operators and transmitting it to one or more ground stations.

The third DoD spacecraft is SAPPHIRE, a micro-satellite designed and built by students at Stanford University and Washington University-St. Louis. The primary mission of Sapphire is to space-qualify two sets of "Tunneling Horizon Detector" infrared sensors designed and built by the Jet Propulsion Laboratory and Stanford University. Secondary experiments include a digital camera and voice synthesizer.

The Kodiak Star is targeted for launch Aug. 31, 2001.

-- end --

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---

### 133. [aprssig] Re: APRS Telemetry

From: "Henk de Groot" <henk.de.groot@hetnet.nl>  
Date: Wed, 6 Dec 2000 23:08:41 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123225-2000.12.06-16.59.42--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> Let me phrase the question differently.  
> Do you use APRS telemetry?

We do using DIGI\_NED's APRS telemetry on our digi at Radio Kootwijk in the Netherlands. It is currently connected to a VSWR supervision device, and to the door to the room in which the digi is located to see if somebody is there.

DIGI\_NED currently has 5 or 8 bit input on the LPT port. This port can be placed in the telemetry string at the place of one of the 5 analog channels or at the digital channel. The telemetry information needed to interpret the telemetry is sent as beacon. The repetition-rate is fully configurable (like everything in DIGI\_NED).

The telemetry is transmitted as normal, but with a query to the digipeater you can also read out the values. If I send the query "?t1m b1" I get the "B1" telemetry value as: "door not open". The name "door" and "open" are read from the telemetry information beacons, as is the information what digital value is to be regarded as "active". If you use the analog channels (when you connect an A/D converter to the LPT port input) then DIGI\_NED does the equations as specified in the beacon, so "?t1m a1" could respond "Battery 13.8 volt". (for those who do not understand, consult the Telemetry section in the wonderful APRS specification and study the PARM. UNIT. EQNS. and BITS. messages the telemetry station sends to itself).

Besides that you can also output data to set values to D0..D7 of an LPT port. That is done by means of a query "!out 1 01x00000" for example where the first 1 points to LPT1 and the bit pattern to be put to the output. Bits with an "x" are not changed. The digipeater will answer back if the modification was successful and what pattern is current on the output pins. We plan to remotely switch antennas this way so we can do some experiments.

On a ham fare on the 14th of October we showed this with connecting a simple circuit with a lamp to pin D7. Using the TH-D7 handheld we could show remote control of the lamp to switch it on and off. The lamp was also connected one of the LPT inputs so query "?TLM B1" gave "lamp is on" or "lamp not on" depending on the state of the lamp. If you want to see how it looked like, see [http://www.qsl.net/digi\\_ned](http://www.qsl.net/digi_ned).

A long answer just to say "Yes we do use Telemetry". And many more can do the same, even when they don't own a KPC3 but just use something simple as a soundcard on a Linux PC for example.

> Will you ever use 9600 baud or the KPC-9612?

In Europe we do not use many TNCs anyway and if we do its most of the time in KISS. I don't expect that we will use this here. We use a lot of 9600 baud but not for APRS.

By the way, you say many APRS programs support this, but I only heard that DosAPRS supports this (didn't check this). I have not heard of any other APRS client that supports it as it is specified in the APRS specification.

Kind regards,

Henk.

---

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### 134. [aprssig] RE: [amsat-bb] Amateur Satellites Slated

From: Pedro Pérez <eb4dka@teleline.es>  
Date: Thu, 7 Dec 2000 00:26:00 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123228-2000.12.06-17.38.55--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> The second DoD spacecraft is a Prototype Communications Satellite (PCSat),  
> operating in the amateur radio band, designed and manufactured by  
Midshipmen  
> of the United States Naval Academy. It will become part of the amateur  
> radio community's Automatic Position Reporting System (APRS) in low earth  
> orbit receiving digitized identity and position data from amateur radio  
> operators and transmitting it to one or more ground stations.

Very good news for the APRSers!  
Pedro,eb4dka

---

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### 135. [aprssig] Ford Exploder and radio installs.

From: "BobD" <BobD@virtualconst.com>  
Date: Wed, 6 Dec 2000 16:39:04 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123235-2000.12.06-18.16.53--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Sorry if this seems off topic. But I could use some help with installing an  
HF rig (IC-706) and a D-700 in a 99 Ford Exploder. Any place/locations that  
should be avoided or any other tidbits of install experience to pass on?

Please reply off the list to avoid congestion.

Thanks,

Bob D.  
N2IPH

-----  
Quote of the Month:

You mean to tell me that all those old ladies in Palm Beach can play 15  
bingo cards simultaneously but can't punch one simple ballot!

---

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---

### 136. [aprssig] Re: APRS Telemetry

From: Bob Bruninga <bruninga@usna.edu>  
Date: Wed, 6 Dec 2000 19:09:04 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123237-2000.12.06-18.21.03--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Wed, 6 Dec 2000, Henk de Groot wrote:

> We do using DIGI\_NED's APRS telemetry on out digi at Radio Kootwijk in the  
> Netherlands....  
> <snip>  
> By the way, you say many APRS programs support this, but I only heard that  
> DosAPRS supports this (didn't check this). I have not heard of any other  
> APRS client that supports it as it is specified in the APRS specification.

Back in 1995/96 MacAPRS fully supported it for Balloons. We suspect that  
when the Sprouls developed WinAPRS, that it fell through the cracks. I am  
not aware of others that use it, although it is built into all KPC-3+'s



and all MIM's, Mic-E's and Mic-Lites. Glad to see DIGI-NED supports it.

de WB4APR, Bob

---

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## 137. [aprssig] APRS Satellite Details

From: Bob Bruninga <bruninga@usna.edu>  
Date: Wed, 6 Dec 2000 19:28:54 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123240-2000.12.06-18.41.34--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Now that the launch of the Naval Academy student built APRS Satellite project is announced for August 2001, here are some design details. This was presented at the annual AMSAT conference in Portland Maine in October 2000. The students call it "PCSAT" for Prototype Communications Satellite.

NOTE: Use a FIXED FONT for best formatting of tables...

-----  
USNA PCSAT:

The mission of PCsat is unique in the Amateur Satellite Service as it is designed to support the text messaging and position tracking needs of mobiles and handhelds only and to provide links into the worldwide internet linked APRS system.

UPLINK/DOWNLINK QUALITIES: Typical uplink and downlinks fall into several different classes based on user ERP and receiver antenna gain as shown below. The column labeled Standby-receive gain is for the user who is not aware of, nor optimized for satellite reception. For example, an HT in a pocket, or mobile parked under trees. It is assumed that stations intending to transmit to the satellite will be in the clear.

|           | ERP | ERP  | Rcv | Rcv | Rcv  |                                 |
|-----------|-----|------|-----|-----|------|---------------------------------|
|           | UHF | VHF  | UHF | VHF | STBY |                                 |
| USERS     | (W) | (W)  | dBi | dBi | dBi  | Applications                    |
| HANDHELDS | 3   | 5    | 3   | 3   | -6   | Sailboats, Hikers, Wilderness   |
| MOBILES   | 70  | 100  | 5   | 5   | -6   | Boats, Remote Travelers         |
| HOME STNS | 700 | 1000 | 13  | 13  |      | * Not intended for PCsat        |
| NETWORK   |     |      |     |     |      |                                 |
| IGATE RCV |     |      | 7   | 5   |      | Omni Internet receive site      |
| MSG NODE  | 70  | 100  |     |     |      | Internet to user UPLINK site    |
| COMMAND   | 700 | 1000 | 13  | 13  |      | US Naval Academy Ground Station |

Notice that this satellite is not designed nor intended for shack-to-shack communications. It is optimized for mobiles and handhelds with OMNI whip antennas.

MISSIONS: Since several other digital amateur satellites have provided imaging and file store-and-forward for the last several years, PCsat concentrates on the popular trend towards personal real-time wireless communications using UI digipeating. In this context, the following list prioritizes these needs.

- 1) Handheld/Mobile message uplink to Internet (emergency and routine)
- 2) Handheld/Mobile message downlink delivery from Internet (paging)
- 3) Handheld/Mobile station-to-station digital communications
- 4) North American wide Bulletin delivery to all users (occasional)
- 5) Handheld/Mobile GPS position tracking to internet
- 6) GPS tracking of buoys, telemetry devices, wildlife, expeditions, etc
- 7) Other UI digipeating applications (TBD)
- 8) Message Store-n-forward (non HAM populated areas only, if at all)

FUNDAMENTAL ASSUMPTIONS DRIVING THE DESIGN:

- 1) Optimum ALOHA TDMA channel efficiency is about 18% due to collisions
- 2) VHF links have a 9 dB advantage over UHF links (omni to omni)
- 3) 1200 baud AFSK has a 7 dB advantage (measured) over 9600 baud FSK
- 4) T/R delays render 9600 only twice as fast as 1200 for short bursts
- 5) UHF uplinks require wide bandwidth to avoid doppler (- 4 dB)

- 6) UHF downlinks require user tuning throughout pass (not desired)
- 7) There are now on the market off-the-shelf amateur digital handheld and mobile transceivers suitable for this SATELLITE mission.
- 8) Anyone can assemble a similar station from existing components readily available over the last 20 years for 1200 baud.

REQUIREMENTS/CONSTRAINTS Design Drivers: The following are some of the obvious first-order alignments of these requirements to hardware and to frequencies. From these, then, we determined the optimum trade-offs to arrive at our final design and frequency requirements.

- 1) MSG delivery to HT in Standby requires best possible downlink (1200 baud VHF). Igate uplink is relatively unconstrained.
- 2) MSG receipt from HT requires best possible uplink (1200 baud VHF). Downlink to internet is relatively unconstrained.
- 3) Continent wide Bulletin Delivery requires downlink on existing dedicated terrestrial APRS frequency (144.39 in North America)
- 4) HT/Mobile real-time messaging requires same up/downlink baudrate
- 5) GPS GAIN-HT and Mobile tracking is relatively unconstrained.
- 6) Low power GPS tracking devices requires best uplink (1200 baud VHF) and the uplink must not be used by any other satellite uplink to avoid unintentional interference to other systems.
- 7) Other UI digipeating applications should be crossband full duplex and should use same up/downlink baud rates
- 8) Store-n-forward (rare) is unconstrained with equal baud rates
- 9) Applications should be spread among multiple receivers to minimize collisions.
- 10) Redundancy, Backups and Fail-Safe RESET timers are desired.
- 11) UHF downlinks are of little value due to poor link budget and doppler
- 12) UHF Uplinks without tuning can be compensated with a 30 Khz SAT RCVR
- 13) KISS applies (Keep it Simple, Stupid)

HARDWARE ALIGNMENT: Using the above as the basis, our design evolved to a pair of dual-port KPC-9612 TNC's. Each KPC-9612 can cross relay from either of its two inputs to its two outputs. Since we only have two transmitters on VHF for best downlink, we can output both the 1200 and 9600 baud channels to the same transmitter (with appropriate PTT/DCD cross strapping to avoid collisions). Although we do not yet have frequency coordination for our two 2m downlinks and two 2m uplinks and two 70cm uplinks, we have gone ahead and penciled in the SUNSAT APRS channel and North American 144.39 APRS channels that we hope to share.

| USERS            | UPLINK         | TNC                | DOWNLINK              |
|------------------|----------------|--------------------|-----------------------|
| -----            | -----          | -----              | -----                 |
|                  |                | KPC-9612 #1        |                       |
| HT-to-HT         | 145.825 -----> | 1200 Baud -*-----> | 145.825 (ITU Subband) |
|                  |                | \ /                |                       |
|                  |                | / \                |                       |
| Mobile-to-Mobile | UHF-U1 ----->  | 9600 Baud -*       |                       |
|                  |                | KPC-9612 #2        |                       |
| Low Pwr Trackers | VHF-U2 ----->  | 1200 Baud -*-----> | 144.39 (over USA )    |
|                  |                | \ /                |                       |
|                  |                | / \                |                       |
| Igate Paging     | UHF-U2 ----->  | 9600 Baud -*       |                       |

Igates will monitor both downlinks to capture every packet heard anywhere and feed to the worldwide APRServe internet linked network for distribution everywhere.

#### DISCUSSION OF THE FREQUENCIES::

- 1) 145.825 could be a shared UI digipeating frequency for such low dutycycle operations in synergism with other similar satellites on the same frequency with agreement amongst them. See my AMSAT SYMPOSIUM Paper 1999.
- 2) VHF UPLINK#2 on any 2m frequency hopefully not shared with any other satellite uplink so that we do not QRM any other sats. We have no objections if this frequency is another satellite downlink. Our user uplinks on this frequency will be about 5W ERP only for special applications in remote areas and will have minimum terrestrial range.
- 3) UHF UPLINK#1. Any 20 KHz frequency in the ITU UHF satellite band
- 4) UHF UPLINK#2. Any other 20 KHz frequency in the ITU UHF sat band
- 5) 144.39 has been blessed in North America for APRS by TAPR, ARRL and

AMSAT-NA and their Canadian counterparts. Downlink on this frequency over North America is a unique opportunity hopefully welcomed by all current users in the region. This downlink will only be SPARSELY USED by special authorized stations for special events or special comms needs or special messaging to users not reachable by the terrestrial system.

CONCLUSION: We hope that other amateur satellites will consider adding a transponder of this simplicity to join our constellation in supporting handheld and mobile amateur radio operators throughout the world. The power of APRS is its use of generic digipeater callsigns. Thus it does not matter what satellite is in view, they all will function equally to link the users to the rest of the world. Secondly, each user's need is only a few 1 second packets. Thus the throughput and number of users supported can be far greater than the other FM satellites (voice). Similarly there is no advantage to channel hogging. Each user only gets one POSITION, One STATUS packet and any one-line messages pending.

For more information on operating the current APRS capable Satellites now in orbit

- \* For info on APRS Satellites <http://web.usna.navy.mil/~bruninga/astars.html>
- \* To see the LIVE worldwide APRS data, TELNET to 199.227.86.221 port 23.
- \* To see a LIVE map, BROWSE [www.aprs.net](http://www.aprs.net) and click on the WORLD map.
- \* To find any APRS Mobile/Handheld/Station BROWSE Steve Dimse, K4HG's, <http://map.findu.com/CALLSIGN>

There were some problems over the weekend with these sites, but they should be OK now. See ya on the birds!

de WB4APR, Bob

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---

### 138. [aprssig] Re: Ford Exploder and radio installs.

From: "bob" <[w2g3zfy@optonline.net](mailto:w2g3zfy@optonline.net)>  
Date: Wed, 6 Dec 2000 21:17:54 -0500  
To: "TAPR APRS Special Interest Group" <[aprssi@lists.tapr.org](mailto:aprssi@lists.tapr.org)>  
Message-ID: <[LYR842-123256-2000.12.06-20.30.05--lyris.aprssi#tapr.org@lists.tapr.org](mailto:LYR842-123256-2000.12.06-20.30.05--lyris.aprssi#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Hi Bob

I have exactly the same setup. I mount the D700 under the passenger seat with the control head mounted in the empty area just above the cupholder. I use some foam rubber to fill the void behind it. I have the Rand McNally GPS on the dashboard, passenger side. The 706 is underneath the drivers side rear seat with the control head mounted above the D700's using extra strong foam double sided tape. HF Outbacker antenna is mounted on drivers side rear on the back tail gate and the dual band 5/8th is on the roof using a Diamond ski rack clamp. Everything works fine, no interference with anything even though I use the cigarette lighter outputs for the rigs (I know its not recommended but it works fine). Everything looks neater in practice than I describe!

Hope this helps

73 de Bob

PS 17M is my favourite /M band.  
-----Original Message-----  
From: BobD <[BobD@virtualconst.com](mailto:BobD@virtualconst.com)>  
To: TAPR APRS Special Interest Group <[aprssi@lists.tapr.org](mailto:aprssi@lists.tapr.org)>  
Date: Wednesday, December 06, 2000 19:21  
Subject: [aprssig] Ford Exploder and radio installs.

>Sorry if this seems off topic. But I could use some help with installing an  
>HF rig (IC-706) and a D-700 in a 99 Ford Exploder. Any place/locations that  
>should be avoided or any other tidbits of install experience to pass on?

>

>Please reply off the list to avoid congestion.

>

>Thanks,

>

>Bob D.

>N2IPH  
>-----  
> Quote of the Month:  
>You mean to tell me that all those old ladies in Palm Beach can play 15  
>bingo cards simultaneously but can't punch one simple ballot!  
>  
>  
>  
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### 139. [aprssig] Visit to LA

From: "Darryl Smith" <darryl@radio-active.net.au>  
Date: Thu, 7 Dec 2000 13:28:44 +1100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123257-2000.12.06-20.38.03--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

G'Day All...

I will be in LA next week, on short notice, and was wondering if there are any ham clubs meeting. I am not really sure of all the details, other than that I am arriving Saturday...

I have a great powerpoint presentation on APRS in the Sydney Olympics if anyone is interested in getting me to talk

Darryl VK2TDS

-----  
Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia  
Mobile Number 0412 929 634 [+61 4 12 929 634 International]  
Darryl@radio-active.net.au | www.radio-active.net.au for domain names

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---

### 140. [aprssig] test message

From: Jim Duncan <ku0g@kcaprs.org>  
Date: Thu, 07 Dec 2000 00:25:24 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123292-2000.12.07-00.40.20--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In the process of changing ISP's....Some mail has been bouncing...  
'scuse the interruption...

--  
73 de Jim, KU0G  
Chairman/Coordinator  
Kansas City APRS Working Group, W0APR  
First Alert Storm Team KMBC-TV9  
Mailto:ku0g@kcaprs.org  
Webpage: http://www.kcaprs.org

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---

### 141. [aprssig] Archives

From: WB8STO <wilbur@one.net>  
Date: Thu, 7 Dec 2000 07:32:03 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123300-2000.12.07-06.40.33--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

Hi All,

I am new to APRS & to this SIG. I am wondering if there is an archive somewhere so I don't ask questions that have been answered before.

73,

Rich  
WB8STO

---

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---

## 142. [aprssig] Can't reach APRS.net or .org, TAPR.org

From: "BobD" <BobD@virtualconst.com>  
Date: Thu, 7 Dec 2000 07:35:43 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123301-2000.12.07-06.57.50--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Is it just me, or is anyone else having trouble reaching

APRS.net APRS.org TAPR.org

I have tried for the last couple days w/o success. I've checked my TCP/IP config for correct gateway and DNS servers for my ISP and they are correct.

N2IPH

---

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---

## 143. [aprssig] Re: Can't reach APRS.net or .org, TAPR.org

From: WB8STO <wilbur@one.net>  
Date: Thu, 7 Dec 2000 08:22:11 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123305-2000.12.07-07.33.58--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I had the same problem. Try <http://www.findu.com/aprs.net/>

>Is it just me, or is anyone else having trouble reaching

>

>APRS.net APRS.org TAPR.org

>

>I have tried for the last couple days w/o success. I've checked my TCP/IP  
>config for correct gateway and DNS servers for my ISP and they are correct.

>

>N2IPH

>

---

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## 144. [aprssig] FW: [aprsnews] aprs.net/findu.com status

From: "Horzepa, Stan" <Stan\_Horzepa@adc.com>  
Date: Thu, 7 Dec 2000 07:25:49 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123308-2000.12.07-07.46.01--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

-----Original Message-----

From: Steve Dimse [mailto:sdimse@netrox.net]  
Sent: Tuesday, December 05, 2000 5:03 PM  
To: APRS Announcements  
Subject: [aprsnews] aprs.net/findu.com status

The problem with the net access of [www.aprs.net](http://www.aprs.net) is related to a paperwork error. When the museum renewed the contract for their T-1 line, the paperwork got lost (I bet the check got cashed!), and on the expiration date the line got turned off. Worse still, the ISP had BellSouth tear down the leased line. So, even though the paperwork was easily squared away, they have to wait for BellSouth to redo the line. They hope to be back on line sometime in the next 48 hours.

As proof that when it rains, it pours, findu.com began having problems this afternoon. According to Telocity, there are no problems in the network now. It is possible some changes I made to my router yesterday are to blame, if so look for things to improve sometime after 11PM when I get home.

Steve K4HG

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---

## 145. [aprssig] Packet on 145.010 to APRS

From: Frank Ingle <[73545.1210@compuserve.com](mailto:73545.1210@compuserve.com)>  
Date: Thu, 7 Dec 2000 08:48:53 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-123309-2000.12.07-08.02.54--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-123309-2000.12.07-08.02.54--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Bob,

>I think a better solution would be to move the entire APRS RF/TNC package  
>out to the antenna site and use a serial cable (3-wire extension cords  
with  
>DB-9/25 connectors? Telephone wire?) to connect it with the laptop in the  
>comm van.

A good example of thinking outside the box, however I wonder whether you would be "jumping from the frying pan into the fire" in this case. The RS-232 specification is the one that applies to the TNC-to-Computer cable. It was originally designed to connect DataSets (modems) to adjacent terminals, and was not designed for long hauls. I think the spec calls for a maximum cable length of 50 feet (maybe less).

Since this is a non-balanced connection (one-side grounded), it is prone to all kinds of QRM. In a high-RF environment, a long run would be an invitation to trouble. I suspect that using torroids, shielded cable and even specialized low-capacitance data cable might not do the trick.

My own inclination would be to stick with a long coax as Bob Buringa suggested, but there is one other simple way you could make the long serial cable work. If this is for a comm van application where reliability is important, I would suggest that you look at short-haul modems which convert the RS-232 signals to a balanced 4-wire format which works well with regular telephone station wire, or even better with twisted pair such as Cat 3 or Cat 5 cable. As an added feature, these devices also relay handshaking signals where needed.

My favorite brand is the RAD Data Communicaitons SRM-5A. These jewels require no external power, and are good for up to 7.5 miles. They have screw-down terminals and RJ-45 connectors for the 4-wire connection, and are available in both genders. A switch allows connection to a DCE (TNC) device or a DTE (computer) device. You can reach RAD at (201) 529-1100 in NJ. Cost is about \$70 each and you need two.

-73-

Frank Ingle, KG4CQK

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---

#### 146. [aprssig] slightly off topic-RF data links

From: "bob" <w2g3zfj@optonline.net>  
Date: Thu, 7 Dec 2000 10:03:26 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123314-2000.12.07-09.07.12--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi Folks

I know that this sig is the ultimate resource and somebody will know the answer!

I need a very small, low power data link system (Tx and Rx) operating in one of the exempted frequency bands to send data at 300-1200baud over a very short distance. Anyone know of any suitable candidates?

TIA

bob  
w2/g3zfj

---

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---

#### 147. [aprssig] Re: slightly off topic-RF data links

From: "Mike Yetsko" <myetsko@insydesw.com>  
Date: Thu, 7 Dec 2000 10:09:10 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123316-2000.12.07-09.21.03--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

There's companies selling 'data' transmitter and receiver modules in Circuit Cellar Ink magazine all the time. I seem to recall about \$25 to \$35 for the modules as 'one-ups'.

Mike

> Hi Folks  
>  
> I know that this sig is the ultimate resource and somebody will know the  
> answer!  
>  
> I need a very small, low power data link system (Tx and Rx) operating in one  
> of the exempted frequency bands to send data at 300-1200baud over a very  
> short distance. Anyone know of any suitable candidates?  
>  
> TIA  
>  
> bob  
> w2/g3zfj

---

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---

#### 148. [aprssig] Re: slightly off topic-RF data links

From: "Craig Brunson, N7TSZ" <brunson1@gte.net>  
Date: Thu, 07 Dec 2000 07:28:44 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123338-2000.12.07-10.48.24--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Nuts & Volts Magazine has quite a few ads for data link systems.  
Some of the links are:  
abacom-tec.com  
lemonsint.com

ramseyelectronics.com  
nutsvolts.com

bob wrote:

> Hi Folks  
>  
> I know that this sig is the ultimate resource and somebody will know the  
> answer!  
>  
> I need a very small, low power data link system (Tx and Rx) operating in one  
> of the exempted frequency bands to send data at 300-1200baud over a very  
> short distance. Anyone know of any suitable candidates?

---

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---

## 149. [aprssig] Los Angeles/SoCal area APRS almost non-functional -- locked up program??

From: WA8LMF1@aol.com  
Date: Thu, 7 Dec 2000 11:57:25 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123342-2000.12.07-11.09.12--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

For the last several hours (as I write this, it's 8:45 AM PST), this stream of headers with no message has been transmitted non-stop on 144.39, stopping virtually all traffic on the channel. I hear an occasional burst attempting to override it but most traffic has stopped. The signal transmits constantly for about a half a minute, unkeys for a of couple of seconds, and then repeats itself.

KD6DAP-1>APW247,RELAY,WIDE:  
KD6DAP-1>APW247,RELAY,WIDE:  
KD6DAP-1>APW247,RELAY,WIDE:  
KD6DAP-1>APW247,RELAY,WIDE:  
KD6DAP-1>APW247,RELAY,WIDE:  
KD6DAP-1>APW247,RELAY,WIDE:  
KD6DAP-1>APW247,RELAY,WIDE:

KD6AP-1 appears to be in the flatlands of the Whittier area at  
33.9468333 N  
118.026666 W

---

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---

## 150. [aprssig] Re: Los Angeles/SoCal area APRS almost non-functional -- locked up program??

From: David VanHorn <dvanhorn@cedar.net>  
Date: Thu, 07 Dec 2000 12:09:41 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123343-2000.12.07-11.23.50--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 11:57 AM 12/7/00 -0500, WA8LMF1@aol.com wrote:  
>For the last several hours (as I write this, it's 8:45 AM PST), this stream  
>of  
>headers with no message has been transmitted non-stop on 144.39, stopping  
>virtually all traffic on the channel. I hear an occasional burst  
>attempting  
>to override it but most traffic has stopped. The signal transmits  
>constantly for about a half a minute, unkeys for a of couple of seconds, and  
>then repeats itself.

Reminds me of how I got into foxhunting.  
A station in about the same area, running a C64 packet program that had  
hung, tying up everything on 5.010

DFit! :) Of course if he's transmitting his position, this should be  
pretty easy..

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>



---

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---

## 151. [aprssid] Re: Los Angeles/SoCal area APRS almost non-functional -- locked up program??

From: Earl Needham <[kd5xb@amsat.org](mailto:kd5xb@amsat.org)>  
Date: Thu, 7 Dec 2000 10:16:35 -0600  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-123344-2000.12.07-11.29.08--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-123344-2000.12.07-11.29.08--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

At 11:57 AM -0500 12/7/00, [WA8LMF1@aol.com](mailto:WA8LMF1@aol.com) wrote:  
>For the last several hours (as I write this, it's 8:45 AM PST), this stream of  
>headers with no message has been transmitted non-stop on 144.39, stopping  
>virtually all traffic on the channel. I hear an occasional burst attempting  
>to override it but most traffic has stopped. The signal transmits  
>constantly for about a half a minute, unkeys for a couple of seconds, and  
>then repeats itself.  
>  
>KD6DAP-1>APW247,RELAY,WIDE:  
>KD6DAP-1>APW247,RELAY,WIDE:  
>KD6DAP-1>APW247,RELAY,WIDE:  
>KD6DAP-1>APW247,RELAY,WIDE:  
>KD6DAP-1>APW247,RELAY,WIDE:  
>KD6DAP-1>APW247,RELAY,WIDE:  
>KD6DAP-1>APW247,RELAY,WIDE:

Just a wild guess, but it looks to as if KD6DAP may be  
in Meteor Mode...

7 3  
Earl

---

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---

## 152. [aprssid] Re: Packet on 145.010 to APRS

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Thu, 7 Dec 2000 12:21:25 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-123345-2000.12.07-11.34.48--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-123345-2000.12.07-11.34.48--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

On Thu, 7 Dec 2000, Frank Ingle wrote about LONG rs-232 runs:

>  
> RS-232 specification is the one that applies to the TNC-to-Computer  
> cable. It was originally designed to connect DataSets (modems) to  
> adjacent terminals, and was not designed for long hauls. I think the  
> spec calls for a maximum cable length of 50 feet (maybe less).

True. But I use it all the time for hundreds of feet and even have a 3000  
foot run of twisted pair that I use to connect a TNC at one location to my  
PC at another.. But you are right, that the SPEC does not guarantee it..

---

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---

## 153. [aprssid] NM->WY

From: Earl Needham <[kd5xb@amsat.org](mailto:kd5xb@amsat.org)>  
Date: Thu, 7 Dec 2000 10:53:54 -0600  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-123348-2000.12.07-12.06.34--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-123348-2000.12.07-12.06.34--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Just out of curiosity, I checked the position of my home  
station over on findu.com. WOW! My position packet got onto the

internet via KK7CN-8, after 6 hops. That seems pretty spiffy to me!  
Must be 500+ miles!

7 3  
Earl

---

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---

## 154. [aprssig] APRS Laptop help

From: Qrpvhf@aol.com  
Date: Thu, 7 Dec 2000 13:08:58 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123351-2000.12.07-12.20.36--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Just got a new/old laptop for mobile APRS use. It is a unknown model Lexbook by Lexmark that has a built in trackball as well as bus port for a mouse. Trying to figure out how to activate either the bus mouse or the built-in trackball. Have tried to install a mouse software for the bus mouse I bought for it but it tries to set it up on COM1 instead of the bus port. Trackball has not been able to get to work at all.

Running Win3.11WFWG, 8mbRAM,250mbHD,486SLC2 CPU.

Tried to look at Lexmark US web site and only found stuff for printers?!?!?!?

Jacob Tennant,K8JWT

---

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---

## 155. [aprssig] St. Louis APRS Expert needed.

From: Bob Bruninga <bruninga@usna.edu>  
Date: Thu, 7 Dec 2000 13:52:49 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123358-2000.12.07-13.05.48--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Is there an APRS guru available in St.Louis, MO?  
Near Washington University?

I may need an expert to go do a demo  
with lots of potential benefit to  
the APRS community.

Reply direct. THanks  
de WB4APR, Bob

---

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## 156. [aprssig] Re: Los Angeles/SoCal area APRS almost non-functional -- locked up program??

From: David VanHorn <dvanhorn@cedar.net>  
Date: Thu, 07 Dec 2000 14:01:49 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123365-2000.12.07-13.36.11--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>>KD6DAP-1>APW247,RELAY,WIDE:  
>>KD6DAP-1>APW247,RELAY,WIDE:  
>  
> Just a wild guess, but it looks to as if KD6DAP may be  
>in Meteor Mode...

There's probably a few hams who would like for him to get one :)

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

---

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---

## 157. [aprssig] Re: Los Angeles/SoCal area APRS almost non-functional -- locked up program??

From: Timothy J Salo <[tjs@tc.umn.edu](mailto:tjs@tc.umn.edu)>  
Date: Thu, 7 Dec 2000 13:28:36 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-123366-2000.12.07-13.40.16--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-123366-2000.12.07-13.40.16--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

> From: David VanHorn <[dvanhorn@cedar.net](mailto:dvanhorn@cedar.net)>  
>  
> DFit! :) Of course if he's transmitting his position, this should be  
> pretty easy..

Well, he is transmitting his call...

I sent him e-mail and got almost an immediate reply. Presumably he will fix this.

-tjs

---

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---

## 158. [aprssig] Re: Los Angeles/SoCal area APRS almost non-functional -- locked up program??

From: Joel Maslak <[jmaslak@antelope.net](mailto:jmaslak@antelope.net)>  
Date: Thu, 7 Dec 2000 12:44:01 -0700 (MST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-123368-2000.12.07-13.53.40--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-123368-2000.12.07-13.53.40--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

On Thu, 7 Dec 2000, David VanHorn wrote:

>KD6DAP-1>APW247,RELAY,WIDE:  
>KD6DAP-1>APW247,RELAY,WIDE:

Too bad the digis aren't doing dupe removal... If they were, you would only have to listen to this once every 30 seconds or so (unless you are direct). It would be "nice" if the KPC 3+ firmware let us do this on more than just WIDEn and TRACEn... I guess this proves that for the more "mature" networks, we need smart digis. That would definately limit the damage!

--

Joel Maslak  
N7XUC

---

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---

## 159. [aprssig] Re: Los Angeles/SoCal area APRS almost non-functional -- locked up program??

From: David VanHorn <[dvanhorn@cedar.net](mailto:dvanhorn@cedar.net)>  
Date: Thu, 07 Dec 2000 14:20:25 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-123369-2000.12.07-13.58.18--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-123369-2000.12.07-13.58.18--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

>I sent him e-mail and got almost an immediate reply. Presumably he  
>will fix this.

The one that I went on, IIRC was a 100W rig (high power anyway) and by the time we found it, had been streaming nulls for hours. When we went into the radio room with the owner, the smell of "toasty radio" was hanging in the air.

Apparently the C64 packet programs were prone to hanging like this, and they had no hardware limit on transmit length.. Ouch.

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

---

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---

## 160. [aprssig] Re: Packet on 145.010 to APRS

From: Jeff King <[jeff@aerodata.net](mailto:jeff@aerodata.net)>  
Date: Thu, 07 Dec 2000 15:37:47 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-123381-2000.12.07-14.44.56--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Frank Ingle wrote:

> The RS-232 specification is the one that applies to the TNC-to-Computer  
> cable. It was originally designed to connect DataSets (modems) to  
> adjacent terminals, and was not designed for long hauls. I think the  
> spec calls for a maximum cable length of 50 feet (maybe less).  
>  
> Since this is a non-balanced connection (one-side grounded), it  
> is prone to all kinds of QRM. In a high-RF environment, a long  
> run would be an invitation to trouble.

Our first major digipeater in Detroit was put on the tower of WKBD,  
a 100kw UHF transmitter in 1985. I wanted to be able to monitor traffic at the  
station, so I ran a RS-232 line to the TNC, about 200 feet. The cable went  
over top of the 100KW (TV) transmitter. I did however use shielded cable  
and keep the baud rate at less than 9600bps on serial port.

Also, this was a TNC1 which had anemic RS-232 drivers. A  
decent TNC such as a Paccomm or Symek should do a even better job.

At one of our present sites, we have a Kantronics D4-10 with a Paccomm  
TNC. However, the NOS computer is 5 stories away from the radio/tnc  
which is on the roof in a shack. As the radio is running 19.2kbaud, we  
really need to talk to the TNC at 38kbaud. In this case, standard RS-232  
won't work (we didn't try) and we ended up using a balanced line driver  
which has performed flawlessly for over 5 years.

-Jeff

---

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---

## 161. [aprssig] Re: Packet on 145.010 to APRS

From: David VanHorn <[dvanhorn@cedar.net](mailto:dvanhorn@cedar.net)>  
Date: Thu, 07 Dec 2000 15:22:49 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-123383-2000.12.07-15.01.17--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Although the 232 spec says no, you can in fact run 232 over long distances,  
at reasonable speeds.

At one time, (pre cheap lans) all of verifone's offices were done with  
serial terminals, running through phone wire to stat-muxes. This involved  
in some cases, hundreds of feet, and in total, probably 300-500 terminals  
nationwide.

Essentially zero problems.

It was kind of nice, in that each office also had modems on the muxes, so  
you could dial in to one office, grab a modem in another office, and dial  
out there, or grab an EPROM programmer in another time-zone.

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

---

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## 162. [aprssig] Galactic APRS

From: Bob Bruninga <bruninga@usna.edu>  
Date: Thu, 7 Dec 2000 16:50:15 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123395-2000.12.07-16.05.21--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Last night I attended an impressive lecture by Dr. Vinton Cerf (the father of the internet) titled "THE INTERPLANETARY INTERNET".

Hearing how Planetary scientific probes will use an extension of the internet for communications, I wondered if APRS was ready for the Galaxy.

Here is a plan for a backwards compatible extension of APRS to cover other planets. We use North/South and East/West on Earth. I propose the following extensions for other planetary APRS trackers:

| PLANET | LAT | LONG |
|--------|-----|------|
| -----  | --- | ---- |
| Earth  | N/S | E/W  |
| Moon   | M/O | O/N  |
| Mars   | U/D | L/R  |
| Europa | ^/v | </>  |
| etc    |     |      |

With the 91 printable characters we use in APRS, taken two at a time, we can extend APRS to over 2000 planets before we have to revise the spec.

Yeah, I need a life..... ;-)

Bob

---

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## 163. [aprssig] Re: Galactic APRS

From: David VanHorn <dvanhorn@cedar.net>  
Date: Thu, 07 Dec 2000 17:29:38 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123396-2000.12.07-16.43.27--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

There's probably a 12 step program for this...  
:)

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

---

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---

## 164. [aprssig] Re: APRS Laptop help

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Thu, 07 Dec 2000 16:31:25 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123397-2000.12.07-16.47.29--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In most laptops the BIOS is where which mouse port or internal pointing device is enabled. Many laptops (new and old) only have one PS/2 port on them, but some actually have a dedicated mouse port. Most that have only one PS/2 port require a "port splitter" to use a mouse on that port. Some

laptops even go as far as requiring a proprietary port splitter. Some laptops only support two button mice (as opposed to 3 button or wheel mice) and some don't support a mouse at all. Plugging in a 3-button or wheel mouse may cause all sorts of wierd behavior or even stop the computer from booting.

I would check the BIOS setup first and see if the trackball or PS/2 port is enabled.

Windows 3.x is a bear to setup, as you really have to have and use the proper drivers for oddball hardware.

73,

Mark  
KC7BXS

At 12:08 PM 12/7/00, Qrpfvh@aol.com wrote:

> Have tried to install a mouse software for the bus mouse I bought  
>for it but it tries to set it up on COM1 instead of the bus port. Trackball  
>has not been able to get to work at all.  
>  
>Running Win3.11WFWG, 8mbRAM,250mbHD,486SLC2 CPU.

---

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---

## 165. [aprssig] Re: Galactic APRS

From: Timothy J Salo <tjs@tc.umn.edu>  
Date: Thu, 7 Dec 2000 16:42:08 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: amsat-bb@amsat.org  
Message-ID: <LYR842-123399-2000.12.07-16.54.43--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> Date: Thu, 7 Dec 2000 16:50:15 -0500 (EST)  
> From: Bob Bruninga <bruninga@usna.edu>  
> Subject: [aprssig] Galactic APRS  
>  
> Last night I attended an impressive lecture by Dr. Vinton Cerf (the father  
> of the internet) titled "THE INTERPLANETARY INTERNET".  
> [...]

I think Vint's most fundamental message is a model that treats space communications as an extension of the terrestrial Internet, rather than an isolated network or collection of isolated networks.

For additional information on the InterPlanetary Internet SIG (the group that Vint's work is associated with) see:

<http://www.ipnsig.org/>

In addition to the presentations found at ipnsig.org, a version of Vint's IPN presentation can be found at:

<http://ccsds1.gsfc.nasa.gov/ftp/ccsds/p1f/IPN/NSF%2003-00/>

Those interested in this topic might also look at the Consultative Committee for Space Data Systems Web pages:

<http://www.ccsds.org/>

You might also look Space Communications Protocol Standards (SCPS) pages at JPL:

<http://www.scps.org/>

(By the way, SCPS includes a Security Protocol, SCPS-SP.)

Obviously I am biased, but I think perhaps the most important message to take away from all of this is that the Internet protocols are beginning to be used in space as well as terrestrially. I believe that the amateur satellite community would do well to take this message to heart.

-tjs

---

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---

## 166. [aprssig] Re: Galactic APRS

From: "The Tate's" <tates@tenforward.com>  
Date: Thu, 7 Dec 2000 14:59:51 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: <amsat-bb@amsat.org>  
Message-ID: <LYR842-123406-2000.12.07-17.14.25--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> Obviously I am biased, but I think perhaps the most important message  
> to take away from all of this is that the Internet protocols are  
> beginning to be used in space as well as terrestrially. I believe  
> that the amateur satellite community would do well to take this message  
> to heart.

A couple of days ago I heard the shuttle saying that they were going to reboot Outlook and IE in order to fix a problem of not being able to view some of the messages that the ground had sent them. Maybe we will get some improvements on the ground side out of this :)

---

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---

## 167. [aprssig] Re: Galactic APRS

From: Peter Anderson <panderson@CenterPartners.com>  
Date: Thu, 7 Dec 2000 16:17:39 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123408-2000.12.07-17.29.51--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

so when do we get to see the Microsoft Icon on the side of the shuttle that says Intel Inside?

-----Original Message-----

From: The Tate's [mailto:tates@tenforward.com]  
Sent: Thursday, December 07, 2000 4:00 PM  
To: TAPR APRS Special Interest Group  
Cc: amsat-bb@amsat.org  
Subject: [aprssig] Re: Galactic APRS

> Obviously I am biased, but I think perhaps the most important message  
> to take away from all of this is that the Internet protocols are  
> beginning to be used in space as well as terrestrially. I believe  
> that the amateur satellite community would do well to take this message  
> to heart.

A couple of days ago I heard the shuttle saying that they were going to reboot Outlook and IE in order to fix a problem of not being able to view some of the messages that the ground had sent them. Maybe we will get some improvements on the ground side out of this :)

---

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---

## 168. [aprssig] SV8CS; Contest Station on 30M

From: Matthew Stennett <wa4tkg@altavista.com>  
Date: 7 Dec 2000 15:28:54 -0800

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123409-2000.12.07-17.40.54--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Is anyone else receiving this station direct on 10.151Mhz ?

I have it plotted @ apx 17:30 EST this afternoon.....no later packets after that.

---

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---

## 169. [aprssig] Re: NM->WY

From: KC7ZRU - Casper <kc7zru@arri.net>  
Date: Thu, 07 Dec 2000 16:31:48 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123410-2000.12.07-17.49.12--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

KK7CN-8 is a KPC3+ digipeater - it has no I-net access at all.

HOWEVER - just below it, to the West, in Laramie, there is an xastir station running. Also - there are several I-gates in Northern Colorado - Ft. Collins and Denver to be exact. And West of Laramie - there's an I-gate in Rawlins.

Still a pretty good haul!

73

Earl Needham wrote:

>  
>  
> Just out of curiosity, I checked the position of my home  
> station over on findu.com. WOW! My position packet got onto the  
> internet via KK7CN-8, after 6 hops. That seems pretty spiffy to me!  
> Must be 500+ miles!  
>  
> 7 3  
> Earl  
>

--

```

/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
| No Longer in Laramie | Now in Casper |
| CARC Repeater 146.640(-) | DN62uu |
| ICQ/ICU# 82711454 | eGroups.com/RM-APRS |
| "The Dungeon" online at http://go.to/KC7ZRU |
+-----+

```

---

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---

## 170. [aprssig] Re: SV8CS; Contest Station on 30M

From: "Clayton H. Owen" <aa3jy@erols.com>  
Date: Thu, 07 Dec 2000 18:44:35 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123412-2000.12.07-17.59.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Matthew Stennett wrote:

>  
> Is anyone else receiving this station direct on 10.151Mhz ?  
>  
> I have it plotted @ apx 17:30 EST this afternoon.....no later packets after that.  
>  
Yes..a number of times

---

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## 171. [aprssig] APRS Field Aux power source

From: Bob Bruninga <bruninga@usna.edu>  
Date: Thu, 7 Dec 2000 19:19:10 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123415-2000.12.07-18.31.56--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In Oct I summarized my experiment to collect energy from power lines next to my Inlaws house with a loop of phone wire on the ground. I got 12mw but noticed that the power was limited by the resistance of my wire.

Last weekend I visited them again with 260' of #10 wire layed out in a 100' by 30' loop on the ground. I fed this 1 turn loop to a 1:50 step up transformer and got a matched power of 115 mw into a 450 ohm load. (19 ma at 5.6v).

Still practically useless. It would take 50 years to recoupe the cost of the copper. <grin>

Bob

On Sun, 1 Oct 2000, Bob Bruninga wrote: (excerpted)

> Ever looking for alternative energy sources for APRS in the field, I did  
> an experiment I have wanted to do since I was a kid. While visiting my  
> Inlaws and noticing the High tension lines out back 18' apart and 25'  
> up, I wanted to see how much energy I could capture by induction.  
> snip>  
> ...made a loop 30' by 85' of 3 conductors of probably #24 gage wire.  
> ...got .75v Open Circuit and 70 ma short circuit current. But with a  
> 10 ohm loop (small phone wire) the total power available was only about  
> 12 milliwatts into a 10 ohm load. Sketch of several crosssections  
> showing the overhead wires and my loop on the ground.

| > | TEST 1           | TEST 2           | TEST 3           |
|---|------------------|------------------|------------------|
| > | * * *            | * * *            | * * *            |
| > |                  |                  |                  |
| > | -L-----L-----    | ---L-----L-----  | L-----L-----     |
| > | 85x30' .75v 68ma | 90x20' .58v 52ma | 70x45' .76v 71ma |
| > |                  |                  |                  |

> My Father-in-law of course asked about the "theft of service issue".  
> ...seems to me that as long as such a loop stays above 1 ohm (nominal  
> ground resistance) and on the ground, then the power is free since it  
> would have been disipated in the ground as heat anyway. If a farmer  
> raises his coil to get closer to the lines, then, yes, he is stealing  
> service. I think it goes as the cube of distance, so if he can half the  
> distance to the lines, he can get 8 times the power...

> Oh well.. Its a fun engineering problem. But there you have it,  
> at least one data point.... I first started wondering about this back  
> when we were at Boy scout camp 40 years ago. Finally got around to it.

> Now, tying this back to APRS...  
> And as usual.... your power may vary... But it was a nice way  
> to pass the time at the inlaws... :-)

> de WB4APR, Bob

---

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## 172. [aprssig] Re: NM->WY

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Thu, 07 Dec 2000 18:16:20 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123427-2000.12.07-19.30.09--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 04:31 PM 12/7/00 -0700, KC7ZRU - Casper blasted the following out into the ether:

>KK7CN-8 is a KPC3+ digipeater - it has no I-net access at all.

Quite correct. The raw packet that I found on the Findu page listed

"KK7CN-8\*" as the last digi in the chain, meaning the IGATE saw my packet from KK7CN-8.

Sorry I wasn't more clear on this...

Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

---

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---

### 173. [aprssig] Re: APRS Field Aux power source

From: "The Germino's" <[mgermino@inreach.com](mailto:mgermino@inreach.com)>  
Date: Thu, 7 Dec 2000 17:24:37 -0800  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-123428-2000.12.07-19.39.09--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

My father got a lesson in collecting energy from power lines a few years ago while working cattle in the hills. He parked his pickup on a little rise where some very large power lines dipped. We all got a good laugh when he told us how "flames" flew from his finger tips after walking in wet grass when he went to open his door.

If you already have a collection source such as a metal barn roof or a fence line it may be economical. I was talking to a pacific gas and electric employee once and he told me about a farmer that grounded his metal roof and put a light bulb in line. The light bulb stayed lit all the time. He didn't say how bright.

Probably illegal, thief of power.

Farmer Mike  
AD6AA

> In Oct I summarized my experiment to collect energy from power lines next  
> to my Inlaws house with a loop of phone wire on the ground. I got 12mw  
> but noticed that the power was limited by the resistance of my wire.  
>  
> Last weekend I visited them again with 260' of #10 wire layed out in a  
> 100' by 30' loop on the ground. I fed this 1 turn loop to a 1:50 step  
> up transformer and got a matched power of 115 mw into a 450 ohm load.  
> (19 ma at 5.6v).  
>  
> Still practically useless. It would take 50 years to recoupe the cost of  
> the copper. <grin>  
>  
> Bob  
>

---

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---

### 174. [aprssig] Re: Galactic APRS

From: Powerwerx <[kjm@powerwerx.com](mailto:kjm@powerwerx.com)>  
Date: Thu, 07 Dec 2000 16:23:15 -0800  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: [aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)  
Message-ID: <LYR842-123429-2000.12.07-19.55.35--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bob:

If the satellite has an IP address it will be fun to Ping it and see that lag time! ;-}

73, ken, KM6YH

----- Original Message -----

From: "Bob Bruninga" <bruninga@usna.edu>  
To: "TAPR APRS Special Interest Group" <>  
Sent: Thursday, December 07, 2000 1:50 PM  
Subject: [aprssig] Galactic APRS

Last night I attended an impressive lecture by Dr. Vinton Cerf (the father of the internet) titled "THE INTERPLANETARY INTERNET".

Hearing how Planetary scientific probes will use an extension of the internet for communications, I wondered if APRS was ready for the Galaxy.

Here is a plan for a backwards compatible extension of APRS to cover other planets. We use North/South and East/West on Earth. I propose the following extensions for other planetary APRS trackers:

| PLANET | LAT | LONG |
|--------|-----|------|
| Earth  | N/S | E/W  |
| Moon   | M/O | O/N  |
| Mars   | U/D | L/R  |
| Europa | ^/v | </>  |
| etc    |     |      |

With the 91 printable characters we use in APRS, taken two at a time, we can extend APRS to over 2000 planets before we have to revise the spec.

Yeah, I need a life..... ;-)

Bob

---

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## 175. [aprssig] Wireless Mobile Workstation

From: Glenn Little <glittle@awod.com>  
Date: Thu, 07 Dec 2000 20:45:31 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123430-2000.12.07-19.59.27--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Would this work for APRS?

Itronix T5000 mobile terminal & 2 Meg SRAM. Case is sealed from rain, has 75 key QWERTY keyboard (needs different key overlay), monochrome LCD display (7.3Wx2.75H 16 shades of grey), internal Motorola RPM4051 radio packet modem, RS-232 serial port, 80C552 processor that boots to MSDOS 5.0 and a A:> prompt. Draws about 175 ma after boot. Used 7.2 VDC nicad packs.

This is advertised in Nuts & Volts magazine Dec 2000 issue page 31 by Resources un-limited ( info@resunltd4u.com ). They are advertised at \$39.00 each or 4 for \$139.00.

I have no connection with the company, just interested if this has a use with APRS.

73  
Glenn  
WB4UIV

---

|                                   |                  |       |          |
|-----------------------------------|------------------|-------|----------|
| Glenn Little                      | glittle@awod.com | QCWA  | LM 28417 |
| Amateur Callsign: WB4UIV          | wb4uiv@amsat.org | AMSAT | LM 2178  |
| QTH: Goose Creek, SC USA (EM92xx) |                  | ARRL  | TAPR     |

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---

## 176. [aprssig] Re: Wireless Mobile Workstation

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Thu, 07 Dec 2000 20:06:57 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123431-2000.12.07-20.19.51--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Itronix is alive and well. But I doubt it'd work well with APRS. These units appear to be built with a specialized application in mind. It would probably be far easier to adapt a "normal" 286 or better laptop for mobile APRS.

73,

Mark  
KC7BXS

At 07:45 PM 12/7/00, Glenn Little wrote:  
>Would this work for APRS?  
>  
>Itronix T5000 mobile terminal & 2 Meg SRAM.

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---

## 177. [aprssig] Freeware decoder program and another use for the CueCat scanner

From: WA8LMF1@aol.com  
Date: Fri, 8 Dec 2000 04:41:00 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123470-2000.12.08-03.52.42--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I found this item while surfing the Simtel archives of freeware and shareware software:

<http://www.simtel.net/simtel.net/win95/util/catscan1.zip>

This freebie program written in Visual Basic (requires the VB6 runtime modules that are not included) decodes the CueCat scanner proprietary output format and essentially converts it to a standard scanner wand. It can send output into any program that accepts keyboard input. (You start the CATSCAN.EXE program, then shift the system focus to the program to be "typed into".) I tried it on a variety of standard bar codes on grocery items (UPC) and books (ISBN) and it really does reproduce the same numbers printed in the bar code. The package includes VB source code.

If you don't have any use for scanning bar code, there is still a good use for the CueCat. [ The CueCat cable has male and female PS/2 plugs connected back-to-back; the original intent was to sandwich the device's cable between the keyboard jack and the plug of the original PC keyboard ] Cut the cat off the end of the cord and strip the end of the cable. Use the cord as a way of tapping 5 VDC out of the PS/2 jack of a laptop for your GPS while still being able to plug a keyboard or mouse into the PS/2 port....

Stephen H. Smith  
Email: [wa8lmf@aol.com](mailto:wa8lmf@aol.com)  
Homepage: <http://members.aol.com/wa8lmf>

-----  
| Radio Communications Systems      Personal Computers  
|                                   Consulting and Systems Integration  
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---

## 178. [aprssig] Re: Freeware decoder program and another use for the CueCat scanner

From: Art Allen <artky1k@ctel.net>  
Date: Fri, 08 Dec 2000 08:26:09 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123511-2000.12.08-07.40.03--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The CueCat (tm) does not need software to view the true output. The good folks at Digital Convergence were good enough to provide a fully functional and decrypted output without any software at all! This output is only available for those who know how to access it though, you won't find this information in the documentation as supplied by the vendor:>:

Modified CueCats hook in series with the keyboard (commonly called a wedge) and simulate a manual entry exactly as though it was typed in from the kb.

With a properly modified cuecat, you can read scans directly into any windoze ap, and the un-encrypted barcode will appear at the location of the cursor in the ap that you have running. You can enter a barcode by scanning, then enter a quantity via the kb if you want to use it for inventory purposes. The only data that comes out of a hardware modified CueCat is the barcode data itself and it is NOT encrypted.

You can enter the scanned data directly into a spreadsheet or database program.

Note that the CueCat does not need to be used with the vendor supplied software at all and there is no possibility of your privacy being violated after the CueCat is modified. A modified CueCat does not output the barcode type data or the serial number that is unique to that CueCat.

Anyone who lives near a Radio Shack should collect as many of these free CueCats as possible::> They are highly useful once they are declawed and they are way cute too!

A small wireless data transmitter and would be easy to do-making it portable, they draw less than 20 ma, so could run on batteries for a long time!!! The PIC programming people could probably add a chip to store the scanned data onboard using non-volatile ram, but I've nver heard of anyone attempting this.

There is also rumor of a USB version-that is, a CueCat that plugs into a USB port. I can't imagine anyone that would be nuts enough to dedicate a USB port to these units, but the capability will be available soon.

Regards,

Art

Art

At 04:41 AM 12/8/00 -0500, you wrote:

>I found this item while surfing the Simtel archives of freeware and shareware  
>software:

>  
> <http://www.simtel.net/simtel.net/win95/util/catscan1.zip>  
>

>This freebie program written in Visual Basic (requires the VB6 runtime  
>modules that are not included) decodes the CueCat scanner proprietary output  
>format and essentially converts it to a standard scanner wand. It can send  
>output into any program that accepts keyboard input. (You start the  
>CATSCAN.EXE program, then shift the system focus to the program to be "typed  
>into".) I tried it on a variety of standard bar codes on grocery items (UPC)  
>and books (ISBN) and it really does reproduce the same numbers printed in the  
>bar code. The package includes VB source code.  
>

>If you don't have any use for scanning bar code, there is still a good use  
>for the CueCat. [ The CueCat cable has male and female PS/2 plugs connected  
>back-to-back; the original intent was to sandwich the device's cable between  
>the keyboard jack and the plug of the original PC keyboard ] Cut the cat  
>off the end of the cord and strip the end of the cable. Use the cord as a  
>way of tapping 5 VDC out of the PS/2 jack of a laptop for your GPS while

```
>still being able to plug a keyboard or mouse into the PS/2 port....
>
>Stephen H. Smith
>Email:          wa8lmf@aol.com
>Homepage:       http://members.aol.com/wa8lmf
>-----
>
>-----
>|      Radio Communications Systems      Personal Computers
>|              Consulting and Systems Integration
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```

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### 179. [aprssig] Re: APRS Field Aux power source

```
From: Ken Brown <W2KB@compuserve.com>
Date: Fri, 8 Dec 2000 09:30:33 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-123512-2000.12.08-08.43.02--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

>> I fed this 1 turn loop to a 1:50 step up transformer and got a matched
power of 115 mw into a 450 ohm load. (19 ma at 5.6v). <<

Wow, I'll have to ask our (PSE&G) electric system operators down in the
basement control room if they noticed this drain on the Eastern
Interconnection! <BG>

---Ken          W2KB@ARRL.net

---
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Questions regarding the SIG go to the SIG administrator: wallou@tapr.org
```

---

### 180. [aprssig] Re: Wireless Mobile Workstation

```
From: Bob Bruninga <bruninga@usna.edu>
Date: Fri, 8 Dec 2000 09:33:24 -0500 (EST)
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Message-ID: <LYR842-123513-2000.12.08-08.47.01--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On Thu, 7 Dec 2000, Glenn Little wrote:

> This is advertised in Nuts & Volts magazine Dec 2000 issue page 31 by
> Resources un-limited ( info@resunltd4u.com ). They are advertised at

Sounds like a great possibility.
That URL didnt work. Coiuld there be a typo?

Bob

---
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```

---

### 181. [aprssig] Iridium saved?

```
From: Robert Stessel <stessel@maine.edu>
Date: Fri, 08 Dec 2000 14:35:37 +0000
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-123515-2000.12.08-09.03.51--lyris.aprssig#tapr.org@lists.tapr.org>
```

Rendered body type: text/plain

See: <http://www.cnn.com/2000/TECH/space/12/07/satelliterescue.ap/index.html>

Robert Stessel - Physical Oceanography Group  
University of Maine - 202 Libby Hall - Orono, ME 04469-5741  
Tel: 207-581- ...4393(me) ...4388(fax)

---

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Questions regarding the SIG go to the SIG administrator: [wallou@tapr.org](mailto:wallou@tapr.org)

---

## 182. [aprssig] Unwanted TROPIC WX Bulletins

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Fri, 8 Dec 2000 10:04:05 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-123516-2000.12.08-09.16.40--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I get many complaints about things that are "cluttering" APRS, but my position is that you can never win in Amateur Radio by criticizing how others use the bands for their interests. Hopefully things are self limiting in the long run, or solvable with filters or local coordination.

Here is one I am seeing more frequently than others.... AND I have a proposed solution at the end....

-----  
hi bob,

... in Southern NJ, I do not beleive that i should be receiving tropic messages from Florida and diffinately not Baha California. I am a full time RVer/traveler... These computer generated tropic BULLETINS are killing the Kenwood d7 and d700 by filling the Message List causing me and other hams to MISS MESSAGES!

[D7's and D700's begin rejecting messages when full and unread]

These BULLETINS are 8 to 12 lines long and then are DUPLICATED in SPANISH! Please find a way to let us use our kenwood radios for reliable Message Receiving.

-----

But I also respect the needs of Skywarn guys who want this data.  
But I too, find my Mobile always full of TROPIC BULLETINS.

SOLUTION???

Ah ha! What if TROPIC transmitted these bulletins NOT as BULLETINS but as a MESSAGE GROUP! Thus, they will not clutter up everyones BULLETIN screens NOR clutter up the Kenwoods. But anyone desiring to receive these bulletins simply adds TROPIC to their MESSAGE GROUPS! Then they get every one...

Also, then everyone can view them on their MESSAGE or TRAFFIC screen if they are interested. Mobiles can still get them by setting a wildcard or also entering the matching TOCALL in their MESSAGE groups too...

de WB4APR, Bob

---

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Questions regarding the SIG go to the SIG administrator: [wallou@tapr.org](mailto:wallou@tapr.org)

---

## 183. [aprssig] Re: Galactic APRS

From: "Randy Farley" <[RFarley@mail.woodgrain.com](mailto:RFarley@mail.woodgrain.com)>  
Date: Fri, 08 Dec 2000 08:29:58 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-123536-2000.12.08-09.44.03--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bob, your too cool. Always thinking outside the box.  
Keep your life like it is, I love it ;)

>>> Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)> 12/07/00 02:50PM >>>

Last night I attended an impressive lecture by Dr. Vinton Cerf (the father of the internet) titled "THE INTERPLANETARY INTERNET".

Hearing how Planetary scientific probes will use an extension of the internet for communications, I wondered if APRS was ready for the Galaxy.

Here is a plan for a backwards compatible extension of APRS to cover other planets. We use North/South and East/West on Earth. I propose the following extensions for other planetary APRS trackers:

| PLANET | LAT | LONG |
|--------|-----|------|
| -----  | --- | ---- |
| Earth  | N/S | E/W  |
| Moon   | M/O | O/N  |
| Mars   | U/D | L/R  |
| Europa | ^/v | </>  |
| etc    |     |      |

With the 91 printable characters we use in APRS, taken two at a time, we can extend APRS to over 2000 planets before we have to revise the spec.

Yeah, I need a life..... ;-)

Bob

---

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---

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---

## 184. [aprssig] Re: Unwanted TROPIC WX Bulletins

From: "Clayton H. Owen" <aa3jy@erols.com>  
Date: Fri, 08 Dec 2000 10:40:03 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123549-2000.12.08-09.52.55--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

FYI..they are TROPIC messages..at least I see them on the 'Traffic' page as messages..not as bulletins. Dale,KG5QD who has explained,on the SIG in the beginning of the Hurrican season, why he changed his format from NHCxxx to TROPIC...

Bob Bruninga wrote:

>  
> I get many complaints about things that are "cluttering" APRS...  
>

---

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---

## 185. [aprssig] Re: Unwanted TROPIC WX Bulletins

From: Bob Bruninga <bruninga@usna.edu>  
Date: Fri, 8 Dec 2000 11:03:17 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123561-2000.12.08-10.14.58--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Fri, 8 Dec 2000, Clayton H. Owen wrote:

> FYI..they are TROPIC messages..at least I see them on the 'Traffic' page  
> as messages..not as bulletins. Dale,KG5QD who has explained,on the SIG  
> in the beginning of the Hurrican season, why he changed his format from  
> NHCxxx to TROPIC...

Great! Then there is no problem. I guess the plaintiff has his message groups WILDCARDED so he is getting everything. Solution is to turn off



his wildcard...

Glad to see the situation is well in hand...  
I'll go crawl back under my rock...

Bob

---

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---

## 186. [aprssig] Re: Unwanted TROPIC WX Bulletins

From: Guy Story <kc5goi@tapr.org>  
Date: Fri, 8 Dec 2000 10:14:19 -0600 (CST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123564-2000.12.08-10.26.04--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Clayton, the messages from Tropic are bulletins not messages directed to a specific station. That is why they show up on the D7 and D700 rigs. What seems to be in order, if it is possible, is create a SUPLIST for the D7 and D700 while they are in APRS mode. I am not sure if this can be done in regular APRS mode on these rigs. I will look at the docs on my D7A this weekend and see. My instinct tells me no.

73, KC5G0I

On Fri, 8 Dec 2000, Clayton  
H. Owen wrote:

```
> Date: Fri, 08 Dec 2000 10:40:03 -0500
> From: Clayton H. Owen <aa3jy@erols.com>
> To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
> Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
> Subject: [aprssig] Re: Unwanted TROPIC WX Bulletins
>
> FYI..they are TROPIC messages..at least I see them on the 'Traffic' page
> as messages..not as bulletins. Dale,KG5QD who has explained, on the SIG
> in the beginning of the Hurrican season, why he changed his format from
> NHCxxx to TROPIC...
>
> Bob Bruninga wrote:
> >
> > I get many complaints about things that are "cluttering" APRS...
> >
> ---
> You are currently subscribed to aprssig as: kc5goi@tapr.org
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org
>
>
```

73,

Guy Story  
KC5G0I  
kc5goi@tapr.org  
<http://www.kc5goi.net>

---

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---

## 187. [aprssig] Re: Unwanted TROPIC WX Bulletins

From: Ralph Fowler <rwf@bsrg.org>  
Date: Fri, 08 Dec 2000 11:36:51 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123571-2000.12.08-10.51.00--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I looked thru the manuals last week and did not see anything that would help.  
These things are killing me too. I can't get a real message on the D-700

for all the WX messages that are clogging it up.  
It isn't very considerate for these to be sent if there is not a way to suppress them.  
Ralph

At 10:14 AM 12/8/00 -0600, you wrote:  
>Clayton, the messages from Tropic are bulletins not messages directed to  
>a specific station. That is why they show up on the D7 and D700 rigs.  
>What seems to be in order, if it is possible, is create a SUPLIST for  
>the D7 and D700 while they are in APRS mode. I am not sure if this can be  
>done in regular APRS mode on these rigs. I will look at the docs on my  
>D7A this weekend and see. My instinct tells me no.

---

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---

## 188. [aprssig] Re: Unwanted TROPIC WX Bulletins

From: Guy Story <kc5goi@tapr.org>  
Date: Fri, 8 Dec 2000 10:53:22 -0600 (CST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123574-2000.12.08-11.05.00--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Suppression was not an issue so much (it was an issue but not so great an issue) until the D7 series radios came about. I transmit the Tropic and other WX related info in my local area. I keep maning to but forget to disable Tropic until the next hurricane season comes about. A good question of Kenwood may be this, Is there a way for a message, if it contains a specific tag, that the radio disregard that message/bulletin?  
I support Dale in his efforts to provide the wx related info on APRS. The big issue is local managment. I have been thinking about the split frequency topic long before the recent threads as a possible solution to the message managment problems. I have no solution for it yet and have remained quite on that topic.

Guy

On Fri, 8 Dec 2000, Ralph Fowler wrote:

> Date: Fri, 08 Dec 2000 11:36:51 -0500  
> From: Ralph Fowler <rwf@bsrg.org>  
> To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
> Subject: [aprssig] Re: Unwanted TROPIC WX Bulletins  
>  
> I looked thru the manuals last week and did not see anything that would help.  
> These things are killing me too. I can't get a real message on the D-700  
> for all the WX messages that are clogging it up.  
> It isn't very considerate for these to be sent if there is not a way to  
> suppress them.  
> Ralph

73,

Guy Story  
KC5G0I  
kc5goi@tapr.org  
<http://www.kc5goi.net>

---

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---

## 189. [aprssig] Re: Unwanted TROPIC WX Bulletins

From: "Clayton H. Owen" <aa3jy@erols.com>  
Date: Fri, 08 Dec 2000 12:28:03 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123580-2000.12.08-11.41.35--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Guy Story wrote:  
>  
> Clayton, the messages from Tropic are bulletins not messages directed to  
> a specific station. That is why they show up on the D7 and D700 rigs.  
> What seems to be in order, if it is possible, is create a SUPLIST for  
> the D7 and D700 while they are in APRS mode. I am not sure if this can be  
> done in regular APRS mode on these rigs. I will look at the docs on my  
> D7A this weekend and see. My instinct tells me no.  
>  
> >  
As an IGATE using the APRS+SA program I have set into the 'Gate by  
Callsign' the callsign "TROPIC" . Whereby I see on my other station  
running the APRSDOS program TROPIC messages,not bulletins. I can not say  
what the other IGATES are doing...  
  
---  
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---

## 190. [aprssig] Re: Unwanted TROPIC WX Bulletins

From: Bob Bruninga <bruninga@usna.edu>  
Date: Fri, 8 Dec 2000 12:38:35 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123581-2000.12.08-11.51.37--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain  
  
On Fri, 8 Dec 2000, Guy Story wrote:  
  
> ...I transmit the Tropic and other WX related info in my local area...  
> ...Is there a way for a message, if it contains a specific tag, that the  
> radio disregard that message/bulletin?  
  
Yes, Just don't send them as bulletins. Send them as messages  
to TROPIC. No one will receive them on their message list unless they add  
TROPIC to their MESSAGE groups. Yet, everyone will still see them on  
their TRAFFIC page if they are interested.  
  
Unfortunately, I think WinAPRS combines everything into one continuous  
"message" list so the differences may not be so obvious. But BULLETINS,  
MESSAGES (to you) and TRAFFIC were designed to be handled differently to  
different pages in APRSDos. The D7 and D700 put both bulletins and  
messages on the one "message list" like WinAPRS but they ignore "traffic"  
(other peoples messages) unless you set the \* wildcard in your message  
groups.  
  
> I support Dale in his efforts to provide the wx related info on APRS.  
  
Yep, its a great service..  
Bob

---  
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---

## 191. [aprssig] FW: [aprsnews] Problem with aprs.net domain

From: "Horzepa, Stan" <Stan\_Horzepa@adc.com>  
Date: Fri, 8 Dec 2000 13:45:59 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123604-2000.12.08-14.12.21--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain  
  
-----Original Message-----  
From: Steve Dimse [mailto:sdimse@earthlink.net]  
Sent: Friday, December 08, 2000 2:29 PM  
To: APRS Announcements  
Subject: [aprsnews] Problem with aprs.net domain

The T-1 line to the museum is still down, and there is a new  
complication. Apparently, after a week of being unable to contact the  
primary servers, the secondary name servers stop serving the domain. The  
line went down last Friday at 11:15 AM, so the secondaries died earlier  
today, a week later. What this means is sometime between now and 20 hours  
from now (as your local name servers drop their 24 hour cached names, you

will lose the ability to look up any name in the aprs.net domain. Bad news for those of you using second.aprs.net as the name for the internet server.

I've tried but cannot seem to find a way to get the secondaries started again without the primary coming on line. If anyone knows how, please let me know. I'm on the road, so my email will be intermittent, and my time to work on the problem severely limited...

Steve K4HG

---

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Questions regarding the SIG go to the SIG administrator: [wallou@tapr.org](mailto:wallou@tapr.org)

---

## 192. [aprssig] Re: FW: [aprsnews] Problem with aprs.net domain

From: Jon Anhold <[jon@verio.net](mailto:jon@verio.net)>  
Date: Fri, 8 Dec 2000 15:39:47 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-123608-2000.12.08-14.51.36--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

If you tell one of the slave nameservers that it is now a master, it will start answering authoritatively.

-j

Previously, Horzepa, Stan ([Stan\\_Horzepa@adc.com](mailto:Stan_Horzepa@adc.com)) wrote:

> -----Original Message-----  
> From: Steve Dimse [[mailto:sdimse@earthlink.net](mailto:mailto:sdimse@earthlink.net)]  
> Sent: Friday, December 08, 2000 2:29 PM  
> To: APRS Announcements  
> Subject: [aprsnews] Problem with aprs.net domain  
>  
>  
> The T-1 line to the museum is still down, and there is a new  
> complication. Apparently, after a week of being unable to contact the  
> primary servers, the secondary name servers stop serving the domain. The  
> line went down last Friday at 11:15 AM, so the secondaries died earlier  
> today, a week later. What this means is sometime between now and 20 hours  
> from now (as your local name servers drop their 24 hour cached names, you  
> will lose the ability to look up any name in the aprs.net domain. Bad  
> news for those of you using second.aprs.net as the name for the internet  
> server.  
>  
> I've tried but cannot seem to find a way to get the secondaries started  
> again without the primary coming on line. If anyone knows how, please let  
> me know. I'm on the road, so my email will be intermittent, and my time  
> to work on the problem severely limited...  
>  
> Steve K4HG  
>  
> ---  
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--

The things that come to those that wait may be  
the things left by those who got there first.

---

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Questions regarding the SIG go to the SIG administrator: [wallou@tapr.org](mailto:wallou@tapr.org)

---

## 193. [aprssig] Re: FW: [aprsnews] Problem with aprs.net domain

From: "Jeff Brenton" <[jeffb@espi.com](mailto:jeffb@espi.com)>  
Date: Fri, 8 Dec 2000 14:56:19 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: "Steve Dimse" <[k4hg@tapr.org](mailto:k4hg@tapr.org)>  
Message-ID: <LYR842-123610-2000.12.08-15.08.34--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> can't get the secondaries started

I have just told my server to act as a master, using the last zone files received; that will get at least ONE server active.

Jeff Brenton  
President,  
Engineered Software Products, Inc  
<http://espi.com>  
Questionable web page: <http://dididahdahdidit.com>

Liberalism grants you the freedom to advocate any idea\*.  
\* Please see <http://www.dididahdahdidit.com/except.php> for a  
current list of exceptions

---

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Questions regarding the SIG go to the SIG administrator: [wallou@tapr.org](mailto:wallou@tapr.org)

---

## 194. [aprssig] Re: FW: [aprsnews] Problem with aprs.net domain

From: "Brent Hildebrand" <[bhildebrand@earthlink.net](mailto:bhildebrand@earthlink.net)>  
Date: Fri, 8 Dec 2000 13:11:10 -0800  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: "Steve Dimse" <[k4hg@tapr.org](mailto:k4hg@tapr.org)>  
Message-ID: <[LYR842-123612-2000.12.08-15.30.19--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-123612-2000.12.08-15.30.19--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

second.aprs.net is still active, just use the "real" address of  
[aprs.socal.interworld.net](http://aprs.socal.interworld.net).

Brent KH2Z

----- Original Message -----

From: "Jeff Brenton" <[jeffb@espi.com](mailto:jeffb@espi.com)>  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: "Steve Dimse" <[k4hg@tapr.org](mailto:k4hg@tapr.org)>  
Sent: Friday, December 08, 2000 12:56 PM  
Subject: [aprssig] Re: FW: [aprsnews] Problem with aprs.net domain

> > can't get the secondaries started  
>  
> I have just told my server to act as a master, using the last zone files  
> received; that will get at least ONE server active.  
>  
> Jeff Brenton  
> President,  
> Engineered Software Products, Inc  
> <http://espi.com>  
> Questionable web page: <http://dididahdahdidit.com>  
>  
> Liberalism grants you the freedom to advocate any idea\*.  
> \* Please see <http://www.dididahdahdidit.com/except.php> for a  
> current list of exceptions  
>  
>  
> ---  
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> Questions regarding the SIG go to the SIG administrator: [wallou@tapr.org](mailto:wallou@tapr.org)  
>  
>

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---

## 195. [aprssig] Re: FW: [aprsnews] Problem with aprs.net domain

From: Jon Anhold <[jon@snoopy.net](mailto:jon@snoopy.net)>  
Date: Fri, 8 Dec 2000 16:23:24 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>,  
Steve Dimse <[k4hg@tapr.org](mailto:k4hg@tapr.org)>

Message-ID: <LYR842-123613-2000.12.08-15.35.43--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

As I've offered many times in the past, I have the resources available to help with nameservice, etc.

I've just grown tired of offering help only to be ignored.

-j

Previously, Jeff Brenton (jeffb@espi.com) wrote:

> > can't get the secondaries started  
>  
> I have just told my server to act as a master, using the last zone files  
> received; that will get at least ONE server active.  
>  
> Jeff Brenton  
> President,  
> Engineered Software Products, Inc  
> http://espi.com  
> Questionable web page: http://dididahdidit.com  
>  
> Liberalism grants you the freedom to advocate any idea\*.  
> \* Please see http://www.dididahdidit.com/except.php for a  
> current list of exceptions  
>  
>  
> ---  
> You are currently subscribed to aprssid as: jon@snoopy.net  
> To unsubscribe send a blank email to leave-aprssid-842K@lists.tapr.org  
> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

--  
It is said that if you line up all the cars in the world end to end,  
someone would be stupid enough to try and pass them.

---  
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---

## 196. [aprssid] Re: FW: [aprsnews] Problem with aprs.net domain

From: Greg Noneman <greg@clubnet.net>  
Date: Fri, 8 Dec 2000 13:34:28 -0800  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Cc: "Steve Dimse" <k4hg@tapr.org>  
Message-ID: <LYR842-123618-2000.12.08-15.52.18--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

Actually, it appears that name server is again correctly pointing to the secondary APRS server. I do not know why that is has resumed operation or whether it will remain functioning. Brent is correct in that the local address of aprs.socal.interworld.net can always be used as a backup when the name server fails. As always, unbuffered data is available on port 23, buffered data on port 10151 and map server on port 8000.

Greg  
WB6ZSU

>second.aprs.net is still active, just use the "real" address of  
>aprs.socal.interworld.net.  
>  
>Brent KH2Z  
>

---  
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---

## 197. [aprssid] Weird Station

From: Zachary Michael <kb9uqq\_2000@yahoo.com>  
Date: Fri, 08 Dec 2000 17:03:32 -0600  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-123622-2000.12.08-16.13.25--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

Hi Gang,  
Does anybody else hear this station?  
Callsign: No (that is his callsign)  
Symbol: 'c' TBD  
Beacon: DX de APRSdata next 80m No Sats  
Posit: next 80m

Is there some way to block this station? He gets really annoying and just eats up my memory.

--  
Thanks,  
Zachary Grant Michael, KB9UQQ,  
KB9UQQ-1, KB9UQQ-9, KB9UQQ-10  
Hartford City, Blackford County, Indiana, EN70  
E-Mail: kb9uqq@tawg.org  
TAWG Coordinator  
<http://www.tawg.org/>  
Zach's Homepage  
<http://www.kb9uqq.net/>  
Zach's APRS Webpages  
<http://www.aprsinindiana.cjb.net/>  
Find Zach... Wherever he's at.  
<http://www.findu.com/find.cgi/kb9uqq-9>  
Zach's Digi  
<http://www.findu.com/find.cgi/kb9uqq-10>  
APRS Frequency: 144.390 MHz Simplex  
SSTV Frequency: 146.460 MHz Simplex

---  
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---

## 198. [aprssid] Re: Galactic APRS

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Fri, 08 Dec 2000 16:11:09 -0600  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-123623-2000.12.08-16.23.31--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 05:17 PM 12/7/00, Peter Anderson wrote:

>so when do we get to see the Microsoft Icon on the side of the shuttle that  
>says Intel Inside?

Probably never. Intel and Microsoft are separate companies. Although some would say it was a WinTel Duopoly.

Having worked for the executive complaint department of a major computer OEM, I was always amused at how the lines got blurred. Many people would start out their complaint or praise letters with, "Dear Bill Gates..." When, of course, our chief stockholder and founder is/was Theodore "Ted" Waite. I also liked the people who knew that Ted Waite was the boss, but were going to "report" us to Bill Gates. :) AFAIK, Bill Gates had very little (NO) input on the day-to-day operations of our company, much less any official affiliations with it. One of my favorite letters started out, "Dear Ted Nugent..." Now that would be cool.

I would also like to point out that the company I worked for sells computers with both Intel and AMD processors. Intel could NEVER meet our production demands with 15,000 units shipping on an average day.

Previously, I was a PO employee of a major aerospace and avionics firm and we seldom "flew" Intel processors. Mostly we used AMD and Cyrix chips. I happened to oversee production processes for both Iridium and ISS projects - not that I'm taking any credit for actual production, as I spent most of my time watching others, looking at spreadsheets, and filling out forms. I don't know if I'd want to be on ISS based on it's hardware and software problems. That and it's made out of Eccofoam. :)

What I can say is that there are very sound economic & engineering reasons for using an operating system and attendant apps that has something like an 85% market penetration - even if there are more stable platforms out there. If memory serves me, some of the recent space "disasters" we've had have been caused partially by the use of multi-platform research and engineering. I also seem to recall that there were some glitches when

Hughes was in the process of saving AsiaSat by slinging it around the moon because their VAX machines wouldn't talk to their NT machines (the Vaxes were in the process of being decommissioned - I think).

All-in-all Galactic APRS is a good idea. With P3D now in orbit, I really do think that Amateur Radio should set it's sights on the moon. Let's set a Kennedy-esque challenge to all Hams - the moon by the end of this decade. Project ARTEMIS - Amateur Radio Transponder on the Moon. If APRSers want to have a say in development and to have APRS capabilities in this endeavor, we need to be early supporters. Why the moon? Because a Geosynchronous Orbit satellite will not be supported by hams worldwide - based on it's footprint - and a satellite is expensive to keep on station in the Clarke Belt. Park a transponder on the the moon and it's not going anywhere (and the moon always shows one face to Earth), plus all hams can use it. Satellites do not generate the PR they used to. A privately funded "expedition" to the moon will get plenty of press.

73,

Mark  
KC7BXS

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## 199. [aprssig] Re: Galactic APRS

From: Jeff King <[jeff@aerodata.net](mailto:jeff@aerodata.net)>  
Date: Fri, 08 Dec 2000 18:11:31 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-123630-2000.12.08-17.18.24--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-123630-2000.12.08-17.18.24--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

This is best on the Amsat and/or Art Bell mailing lists but...

It was wrote:

>  
> All-in-all Galactic APRS is a good idea. With P3D now in orbit, I really  
> do think that Amateur Radio should set it's sights on the moon. Let's set  
> a Kennedy-esque challenge to all Hams - the moon by the end of this  
> decade. Project ARTEMIS - Amateur Radio Transponder on the Moon.

There was no technical/free market point to Kennedy's challenge and there is even less to a ham radio one... unless of course your saying it's political.

> If  
> APRSers want to have a say in development and to have APRS capabilities in  
> this endeavor, we need to be early supporters. Why the moon? Because a  
> Geosynchronous Orbit satellite will not be supported by hams worldwide -  
> based on it's footprint -

Yeap, a Molinia orbit would be a better fit for the majority of hams (not forgetting Australia however). Or a indium style data constellation if your concerned about latency.

> and a satellite is expensive to keep on station  
> in the Clarke Belt. Park a transponder on the the moon and it's not going  
> anywhere (and the moon always shows one face to Earth), plus all hams can  
> use it. Satellites do not generate the PR they used to. A privately  
> funded "expedition" to the moon will get plenty of press.

Well, your forgetting (at least) two things. One, is you have to land the thing... so not only does the transponder need orbital thrusters (like a geosynchronous satellite) but it needs landing thrusters and guidance. This is not a trivial addition. Secondly, you also forgetting the path loss is far greater to the moon than it is to a Geosync satellite as well as the path delay >2000ms. Not a good fit for most real time data apps. Out of the question for a handheld or the majority of base stations.



I thought this thread was a joke... apparently some people took it seriously. In the end, people do things for a reason... it must do something for THEM which goes beyond simply being "neat". This is why we see the internet usage taking away from ham radio as the internet actually can do something useful for most people. Focus on what is needed, the fundamentals, what people want, and this will make things successful.

-Jeff

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## 200. [aprssig] Re: Galactic APRS

From: Mark Fellhauer <[sparkfel@primenet.com](mailto:sparkfel@primenet.com)>  
Date: Fri, 08 Dec 2000 18:12:08 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-123649-2000.12.08-18.24.44--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-123649-2000.12.08-18.24.44--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

At 05:11 PM 12/8/00, Jeff King wrote:

>There was no technical/free market point to Kennedy's challenge and their  
>is even  
>less to a ham radio one... unless of course your saying it's political.

Actually it's part technical challenge and part publicity stunt. I don't extoll any other virtues in the project. :)

>Well, your forgetting (at least) two things....I thought this thread was a  
>joke...In the end, people do things for a reason... it must do something  
>for THEM  
>which goes beyond simply being "neat"

I forgot neither. This is a REAL TECHNICAL challenge. I'm not sure we can do it. Heck, I don't think the US Governemnt could mount a manned moon expedition and pull it off in the next ten years. One could make the argument that climbing Mt. Everest has no positive or probotive value, either, but plenty of people do it, or want to. As for path loss, we've been doing EME for some time now. 40 years ago it was primarily the domain of the military - our ill-fated SIGINT ships the USS Pueblo and USS Liberty both had TRSSCOMM antennas (pre-communications satellites); now CW moonbounce is a fairly common mode for hams. An active moon transponder will make SSB voice contacts possible - and within the means of most hams or ARC's.

I find the criticism odd for this SIG. I'm usually the one getting flak for promoting "down-to-earth" (pardon the pun) solutions here. People on this SIG "pride" themselves on being on the cutting edge of technology and tinkering and experimenting for the "joy" of it. Is spending \$40 on materials and 3 hours building a home-brew GPS antenna (from someone else's plans or a computer model) cutting edge? Is it even practical? - Especially when I've been able to procure well-engineered off-the-shelf amplified GPS antennas the size of an Oreo Cookie for as little as \$25. But people on this say it's positive and enlightening...

73,

Mark  
KC7BXS

---

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---

## 201. [aprssig] Re: Galactic APRS

From: Jeff King <[jeff@aerodata.net](mailto:jeff@aerodata.net)>  
Date: Fri, 08 Dec 2000 19:47:43 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-123651-2000.12.08-18.54.36--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-123651-2000.12.08-18.54.36--lyris.aprssig#tapr.org@lists.tapr.org)>

Rendered body type: text/plain

Mark Fellhauer wrote:

>

> At 05:11 PM 12/8/00, Jeff King wrote:

> >Well, your forgetting (at least) two things....I thought this thread was a  
> >joke....In the end, people do things for a reason... it must do something  
> >for THEM which goes beyond simply being "neat"

>

> I forgot neither. This is a REAL TECHNICAL challenge.

First of all, it's very bad net etiquette to cut up someone's response when you are quoting them. You completely misquoted me by rearranging things out of context and deleting key points. I was discussing technical issues and how what you are proposing simply would not be that useful when you completed the task. Yes, I agree, just like Kennedy's cold war moon challenge, it would indeed be a technical challenge. Yet, what is the need? You want to put a transponder on the moon when we as the APRS community can't keep the local servers running? What value will this bring to the APRS user space?

One that understands data communications, realizes that a low earth orbit satellite is much more useful than something a quarter million miles away. Now if you trying to restrict its usage to those with EME type stations, then have at it. But if your goal was to enable worldwide HT style communications, with low latencies and ERP requirements, then low earth orbit is the way to go.. AKA the Indium style inter operability model.

I'm of the opinion there is alot of neat projects right here on earth with regards to APRS that might be more deserving. There simply is no profit motive in amateur radio to put up a useable satellite infrastructure.

> I find the criticism odd for this SIG.

Oh, you mean the Art Bell comments? That was because some people where actually taking this thread seriously. Wasn't targeting you or anyone in particular, just putting this thread in the context it deserves to be in.

Maybe we should have held at the 12 step program someone else suggested as a solution to this thread?

-Jeff

---

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---

## 202. [aprssig] Re: FW: [aprsnews] Problem with aprs.net domain

From: Greg Noneman <greg@clubnet.net>  
Date: Fri, 8 Dec 2000 17:38:57 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123655-2000.12.08-19.51.33--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Brian B. Riley wrote:

>yeah, well Findu, which has been OK for the last few days/week has not  
>been responding at all for the last hour.

Steve Dimse has indicated that there also appears to be a problem with the findu.com DSL line . Until findu gets back online, the mapserver on second.aprs.net can be used to obtain basic mapping information. It obviously does not have the findu database lookup features.

The mapserver can be reached at:

http://second.aprs.net:8000/callsign (replace callsign with desired station)

Greg  
WB6ZSU

---

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## 203. [aprssig] Re: FW: [aprsnews] Problem with aprs.net domain

From: Hamish Moffatt <hamish@cloud.net.au>  
Date: Sat, 9 Dec 2000 14:11:33 +1100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123667-2000.12.08-21.23.19--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Fri, Dec 08, 2000 at 01:34:28PM -0800, Greg Noneman wrote:  
> Actually, it appears that name server is again correctly pointing to the  
> secondary APRS server. I do not know why that is has resumed operation  
> or whether it will remain functioning. Brent is correct in that the  
> local address of aprs.socal.interworld.net can always be used as a backup  
> when the name server fails. As always, unbuffered data is available on  
> port 23, buffered data on port 10151 and map server on port 8000.

Unfortunately, second is not 100% compatible; for example,  
it doesn't have port 1314 (message only traffic) which I use to  
feed my IGATE here, nor the web server on 14501. I guess you  
are running MacAPRS rather than aprsd on second?

Regards,  
Hamish

--  
Hamish Moffatt VK3SB <hamish@debian.org> <hamish@cloud.net.au>

---  
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Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

---

## 204. [aprssig] Re: Galactic APRS

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Fri, 08 Dec 2000 21:27:58 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123669-2000.12.08-21.40.38--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 06:47 PM 12/8/00, Jeff King wrote:

>First of all, it's very bad net etiquette to cut up someone's response when  
>you are quoting them. You completely misquoted me by rearranging things out  
>of context and deleting key points.

Can't please anyone on this sig. If you quote too much - people bitch. If  
you quote to little - people bitch. If you try to elaborate with a lengthy  
post - people complain about the length. If you have a one line follow up  
- people complain about that. Sheesh!

And then LYRIS butts in half the time...even when it shouldn't.

>I was discussing technical  
>issues and how what you are proposing simply would not be that useful when you  
>completed the task. Yes, I agree, just like Kennedy's cold war moon  
>challenge,  
>it would indeed be a technical challenge. Yet, what is the need? You want  
>to put a transponder on the moon when we as the APRS community can't keep  
>the local servers running? What value will this bring to the APRS user space?

I make no lofty technical claims about it's usefulness. It's a PR  
stunt. Something that will put ham radio on the news. It would be an  
historical first. One that would be remembered. As for APRS servers  
being down. Big Deal. Communications errors with a phone company/ISP and  
the fact that the people who maintain them are volunteers means that  
sometimes the servers will be down. Heck, I had a signed US West work order  
in my hand stating that some phone lines had been switched over - but the  
work was never done... This is PAR for the course. In my case it meant  
that a company that does Emergency Response work to HazMat situations was  
w/o landline phones.

>One that understands data communications, realizes that a low earth orbit  
>satellite is much more useful then something a quarter million miles  
>away. Now if you trying to restrict its usage to those with EME type stations,  
>then have at it. But if your goal was to enable worldwide HT style  
>communications,  
>with low latencies and ERP requirements, then low earth orbit is the way  
>to go..

>AKA the Indium style inter operability model.

I never made or inferred any claims that you'd be able to work a moon-based transponder with an HT. That's just silly. But you would probably be able to work it with 100 watts, a good pre-amp, and a yagi. And there would be no need for computer prediction tables and antennas could be aimed by eye/hand. Doppler correction would be minimal.

My point is that people are already actively planning ARTEMIS and unless the APRS community starts working with them we will be left off the boat (again). As for Indium - I think you mean Iridium. The initial plan of Motorola was to have 77 active LEO satellites linked into a Global communications system. 77 being the Atomic number of Iridium. With costs mounting and revenue projections declining - It was decided to use 66 active satellites. But they didn't change the name of the project to Dysprosium (Atomic number 66). Iridium FAILED commercially. Why? Because it's very expensive to launch and maintain a constellation of satellites, and it's an ongoing job. It was going to take 90 launches (or more) to complete the job of Iridium. As satellites age and orbits decay, its necessary to launch MORE satellites. This is economically untenable for an amateur organization. On the other hand it would cost far less to make one launch on a Proton rocket and do a lunar orbit and insertion. Hughes accidentally discovered this was possible. Even if the engineering costs are high, it's a fixed cost (and far less than even a few dozen launches). Once the transponder is on the moon there is no need to do anything to it from ground stations other than to monitor and manage its health.

A few years back I sat in on a lecture at the ARRL SW Division Conference about the Hughes AsiaSat Moon rescue. It was very informative and quite captivating. Unfortunately I've forgotten the callsign of the Hughes employee who did the presentation. Over the years I've also sat in on a number of AmSat P3D lectures and was amazed at the technical excellence of the core team. Like I said, I oversaw parts of production of the Reaction Wheel Assemblies of Project Iridium - specifically the freon (and later heptane) bath of the CNC lathing process and their air emissions (non-title 5) and recovery of said liquid. After seeing what the P3D team was doing, I felt like "we" were building satellites with bone hammers and stone axes. Granted, we were running a production line.

>I'm of the opinion there is alot of neat projects right here on earth with  
>regards to APRS that might be more deserving. There simply is no profit motive  
>in amateur radio to put up a useable satellite infrastructure.

No one here proposed a constellation of satellites. Except you. I never made any claims that a moon-based transponder would be workable with an HT, that it would be devoted solely to APRS, or that it would be part of a high-speed global communications amateur radio network. I don't even know where those got worked into the equation of ARTEMIS. And I never even considered that this would be built by the members of this SIG solely. It would have to be a worldwide effort by all amateurs.

> > I find the criticism odd for this SIG.  
>  
>Oh, you mean the Art Bell comments? That was because some people where  
>actually  
>taking this thread seriously. Wasn't targeting you or anyone in particular,  
>just putting this thread in the context it deserves to be in.

Actually, I meant criticizing people on this SIG really promoting something that is cutting edge that hasn't been done before.

I would agree that large manned outposts in space, much less deep space travel is impractical and improbable (I also worked in BioSphere II). I would say that several Japanese corporations are seriously working on building an orbiting hotel starting in the year 2050 or thereabouts. While I was doing biomass remediation in BioSphere II we were filmed and interviewed by the NASDA and JAC (Japanese Space Agencies) who were keenly interested in the problems we had encountered. I will say that if you bring dirt and plants into space, you will not be in a hospital environment. :) And please don't lump me in with the original BioSpherians. I know that land plants do not produce a net surplus of oxygen (knew that when I was 11). And I went in carrying a chainsaw.

73,

Mark  
KC7BXS

---

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---

## 205. [aprssig] Re: Weird Station

From: Skip Allison <sallison@megsinet.net>  
Date: Fri, 08 Dec 2000 21:29:22 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123671-2000.12.08-21.44.40--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Put him in your suplist - if the TNC will accept No for a call.  
(Will your TNC take No for an answer?)

Skip  
K9SA

Zachary Michael wrote:

>  
> Hi Gang,  
> Does anybody else hear this station?  
> Callsign: No (that is his callsign)  
> Symbol: 'c' TBD  
> Beacon: DX de APRSdata next 80m No Sats  
> Posit: next 80m  
>  
> Is there some way to block this station? He gets really annoying and  
> just eats up my memory.  
> --  
> Thanks,  
> Zachary Grant Michael, KB9UQQ,  
> KB9UQQ-1, KB9UQQ-9, KB9UQQ-10  
> Hartford City, Blackford County, Indiana, EN70  
> E-Mail: kb9uqq@tawg.org  
> TAWG Coordinator  
> <http://www.tawg.org/>  
> Zach's Homepage  
> <http://www.kb9uqq.net/>  
> Zach's APRS Webpages  
> <http://www.aprsinindiana.cjb.net/>  
> Find Zach... Wherever he's at.  
> <http://www.findu.com/find.cgi/kb9uqq-9>  
> Zach's Digi  
> <http://www.findu.com/find.cgi/kb9uqq-10>  
> APRS Frequency: 144.390 MHz Simplex  
> SSTV Frequency: 146.460 MHz Simplex  
>  
> ---  
> You are currently subscribed to aprssig as: sallison@megsinet.net  
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org  
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---

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---

## 206. [aprssig] Re: Freeware decoder program and another use for the CueCat scanner

From: Skip Allison <sallison@megsinet.net>  
Date: Fri, 08 Dec 2000 21:38:19 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123672-2000.12.08-21.51.02--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

That url doesn't work, Try  
<http://www.simtel.net/pub/simtelnet/win95/util/catscan1.zip>

Skip  
K9SA

WA8LMF1@aol.com wrote:

>  
> I found this item while surfing the Simtel archives of freeware and shareware  
> software:  
>  
> <http://www.simtel.net/simtel.net/win95/util/catscan1.zip>

```

>
> This freebie program written in Visual Basic (requires the VB6 runtime
> modules that are not included) decodes the CueCat scanner proprietary output
> format and essentially converts it to a standard scanner wand. It can send
> output into any program that accepts keyboard input. (You start the
> CATSCAN.EXE program, then shift the system focus to the program to be "typed
> into".) I tried it on a variety of standard bar codes on grocery items (UPC)
> and books (ISBN) and it really does reproduce the same numbers printed in the
> bar code. The package includes VB source code.
>
> If you don't have any use for scanning bar code, there is still a good use
> for the CueCat. [ The CueCat cable has male and female PS/2 plugs connected
> back-to-back; the original intent was to sandwich the device's cable between
> the keyboard jack and the plug of the original PC keyboard ] Cut the cat
> off the end of the cord and strip the end of the cable. Use the cord as a
> way of tapping 5 VDC out of the PS/2 jack of a laptop for your GPS while
> still being able to plug a keyboard or mouse into the PS/2 port....
>
> Stephen H. Smith
> Email: wa8lmf@aol.com
> Homepage: http://members.aol.com/wa8lmf
> -----
>
> -----
> | Radio Communications Systems Personal Computers
> | Consulting and Systems Integration
> | GPS Custom Mapping & Radio Coverage Surveys
> | File Conversions MS-Windows Setups VISCI II Fonts
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>
> ---
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> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

```

## 207. [aprssig] DTMF Switching

```

From: BordingK@aol.com
Date: Fri, 8 Dec 2000 22:46:53 EST
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-123682-2000.12.08-22.01.46--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Looking to turn an APRS and Radio related device on and off using
over-the-air DTMF tones. Any simple means of remotely switching on and off
200 - 300 ma circuit?

Thanks in advance.

DE W5KNB
Ken

```

## 208. [aprssig] Re: Galactic APRS

```

From: Qrpvhf@aol.com
Date: Fri, 8 Dec 2000 23:21:14 EST
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-123683-2000.12.08-22.33.37--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

LIGHTEN UP! IT WAS A GOOD JOKE!

Have a coca-cola and smile ;-)

PS: Maybe we could call the "Galactic APRS" transponder...Battlestar
Galactica?
BOB1? BRUNINGASTAR? DARTH APRSer?

Have some fun with life, things go alot easier...

Jacob Tennant,K8JWT

```

## 209. [aprssig] Re: Galactic APRS

From: Jeff King <jeff@aerodata.net>  
Date: Fri, 08 Dec 2000 23:42:29 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123684-2000.12.08-22.49.53--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Mark Fellhauer wrote:

>  
> At 06:47 PM 12/8/00, Jeff King wrote:  
>  
> >First of all, it's very bad net etiquette to cut up someone's response when  
> >you are quoting them. You completely misquoted me by rearranging things out  
> >of context and deleting key points.  
>  
> Can't please anyone on this sig. If you quote too much - people bitch. If  
> you quote to little - people bitch.

Does seem that way, doesn't it?

-J

---

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---

## 210. [aprssig] APRS and EMWIN interface

From: Jamie Hutches <jmhutches@Harding.edu>  
Date: Sat, 09 Dec 2000 00:39:02 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123704-2000.12.09-00.52.08--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I am running the aprsdSRC (N5HU) aprsd 2.1.4 igate here in Arkansas and I am looking for a way to repeat all the NWS messages to RF here in AR. I am wondering, has anyone attempted an APRS/EMWIN gateway?

I am no programmer but It seems to me that if we can set up a computer at NWS offices in the SKYWARN area, we could some how maybe run a daemon on a linux box to extract Weather advisories and watches and warnings from the EMWIN data stream automatically for our area and then insert those into the APRS network.

Anyone attempted this before? Or have any experience in retransmission of the EMWIN data stream I would like to talk to you about it.

Thanks,

Jamie Hutches, KD5G0B

V-P, North Central Arkansas Amateur Radio Service

---

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---

## 211. [aprssig] Re: Unwanted TROPIC WX Bulletins

From: "Dale Huguley" <kg5qd@earthlink.net>  
Date: Sat, 9 Dec 2000 11:23:32 -0000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123717-2000.12.09-05.36.55--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi All-

I have a solution to the problem with all the weather stuff "clogging" the system.

The WXSVR feed is now off-line. This project has not been any fun for a year or so. I am now at the conclusion that aprs and weather related output are not compatible. I have other things I want to do with Ham Radio and fighting endless sig wars is not one of them.

73 de kg5qd Dale

---

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## 212. [aprssig] Re: Unwanted TROPIC WX Bulletins

From: "Mark" <na4v@hom.net>  
Date: Sat, 9 Dec 2000 06:39:32 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123718-2000.12.09-05.52.00--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Please Dale I wish you would reconsider your decision. More folks like myself should have stepped forward that last few days and expressed our deep appreciation for all the work you have done. I have found that showing APRS to non-hams...the WXSVR feed impresses them the most!...I truly believe there are workarounds for folks who may whine about the message traffic (please no flames). Your hard work can truly bolster many SKYWARN networks!....please continue!

Mark, NA4V

----- Original Message -----

From: "Dale Huguley" <kg5qd@earthlink.net>  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Sent: Saturday, December 09, 2000 6:23 AM  
Subject: [aprssig] Re: Unwanted TROPIC WX Bulletins

> Hi All-  
> I have a solution to the problem with all the weather stuff "clogging"  
> the system.  
> The WXSVR feed is now off-line. This project has not been any fun for a  
> year or so. I am now at the conclusion that aprs and weather related  
output  
> are not compatible. I have other things I want to do with Ham Radio and  
> fighting endless sig wars is not one of them.  
>  
> 73 de kg5qd Dale  
>  
>  
> ---  
> You are currently subscribed to aprssig as: NA4V@HOM.NET  
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org  
> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org  
>  
>

---

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---

## 213. [aprssig] Re: APRS and EMWIN interface

From: "Travis J. Maclay" <travis@btea.org>  
Date: Sat, 9 Dec 2000 06:52:56 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "TAPR SIG" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123719-2000.12.09-06.05.07--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Check w/ Dale Huguley. I know this was discussed back in April and May of this year and believe he has (had) it online. He can be reached via email at kg5qd@earthlink.net

Hope this helps.

Travis  
N4TJM

----- Original Message -----

From: "Jamie Hutches" <jmhutches@Harding.edu>  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Sent: Saturday, December 09, 2000 1:39 AM  
Subject: [aprssig] APRS and EMWIN interface

> I am running the aprsdSRC (N5HU) aprsd 2.1.4 igate here in Arkansas and I  
am  
> looking for a way to repeat all the NWS messages to RF here in AR. I am  
> wondering, has anyone attempted an APRS/EMWIN gateway?  
> I am no programmer but it seems to me that if we can set up a computer at  
> NWS offices in the SKYWARN area, we could somehow maybe run a daemon on a



> linux box to extract Weather advisories and watches and warnings from the  
> EMWIN data stream automatically for our area and then insert those into  
the  
> APRS network.  
> Anyone attempted this before? Or have any experience in retransmission of  
> the EMWIN data stream I would like to talk to you about it.  
> Thanks,  
> Jamie Hutches, KD5G0B  
> V-P, North Central Arkansas Amateur Radio Service  
>  
>  
> ---  
> You are currently subscribed to aprssig as: travis@btea.org  
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org  
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>  
>

---  
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---

## 214. [aprssig] Re: DTMF Switching

From: "Kriss Alan Kliegle" <kliegle@nh.ultranet.com>  
Date: Sat, 9 Dec 2000 6:21:23  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123720-2000.12.09-06.33.32--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain  
  
Try NHRC, they make repeater controllers and other goodies.  
<http://www.nhrc.net>

Also:  
<http://icircuits.com>  
They make such a device.

73 de Kriss KA1GJU

---  
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---

## 215. [aprssig] Re: DTMF Switching

From: Bob Bruninga <bruninga@usna.edu>  
Date: Sat, 9 Dec 2000 07:55:27 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123724-2000.12.09-07.06.56--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Fri, 8 Dec 2000 BordingK@aol.com wrote:

> Looking to turn an APRS and Radio related device on and off using  
> over-the-air DTMF tones. Any simple means of remotely switching on and off  
> 200 - 300 ma circuit?

Not DTMF but you can do it from any D7 or D700.  
APRSDos can switch any of 8 bits on and off on the parallel port from a  
packet over the air from your callsign anywhere on the planet...

on-air commands are SET B, OFF B and READ

You could rig this to turn it off... But getting it back on is a problem  
if its off...,  
hi hi...

See README\I-0.TXT in all APRSDos docs since version 848

Bob

---  
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---

## 216. [aprssig] Re: Unwanted TROPIC WX Bulletins

From: Gerry Creager N5JXS <gerry@cs.tamu.edu>  
Date: Sat, 09 Dec 2000 07:41:48 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123726-2000.12.09-07.53.40--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I wish to second this. I consider the WxServer application extremely important to my and my APRS(ish) use. And I'll suffer the flames from those who cannot cope with the weather messages... For so useful an application to be killed by whining seems a real shame.

Mark wrote:

>  
> Please Dale I wish you would reconsider your decision. More folks like  
> myself should have stepped forward that last few days and expressed our deep  
> appreciation for all the work you have done. I have found that showing APRS  
> to non-hams...the WXSVR feed impresses them the most!...I truly believe  
> there are workarounds for folks who may whine about the message traffic  
> (please no flames). You hard work can truly bolster many SKYWARN  
> networks!...please continue!

In response to:

> ----- Original Message -----  
> From: "Dale Huguley" <kg5qd@earthlink.net>  
> To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
> Sent: Saturday, December 09, 2000 6:23 AM  
> Subject: [aprssig] Re: Unwanted TROPIC WX Bulletins  
>  
> > Hi All-  
> > I have a solution to the problem with all the weather stuff "clogging"  
> > the system.  
> > The WXSVR feed is now off-line. This project has not been any fun for a  
> > year or so. I am now at the conclusion that aprs and weather related  
> > output  
> > are not compatible. I have other things I want to do with Ham Radio and  
> > fighting endless sig wars is not one of them.

--

Gerry Creager -- gerry@cs.tamu.edu  
Network Engineering |Research focusing on  
Academy for Advanced Telecommunications |Satellite Geodesy and  
and Learning Technologies |Geodetic Control  
Texas A&M University 979.458.4020 (Phone) -- 979.847.8578 (Fax)

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---

## 217. [aprssig] Re: Unwanted TROPIC WX Bulletins

From: Bob Bruninga <bruninga@usna.edu>  
Date: Sat, 9 Dec 2000 08:50:14 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123728-2000.12.09-08.04.39--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Sat, 9 Dec 2000, Dale Huguley wrote:

> Hi All-  
> I have a solution to the problem with all the weather stuff "clogging"  
> the system. The WXSVR feed is now off-line.

Did you consider my suggestion to transmit the info as MESSAGES so that it still gets transmitted everywhere, but only the D7 and D700's would not get it unless they added it to their MESSAGE GROUPS?

That seems to me to be a good fix. You only have to change one line in your code. Instead of transmitting to BLN#, you simply transmit to XXXXX where you can choose XXXXX to be TROPIC or any other identifier you want.

ALL APRS operators will still receive it.  
The D7 and D700's will not, unless they place XXXXX in their MSG GROUPS.

Seems like a simple solution to me that allows everyone to still get it, and only those that have limited MESSAGE/BULLETIN buffers (16 lines

in the D7 and D700) to filter it out.

Bob

---

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Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

---

## 218. [aprssig] Re: FW: [aprsnews] Problem with aprs.net domain

From: "Gregg G. Wonderly" <gregg@skymaster.c2-tech.com>  
Date: Sat, 09 Dec 2000 09:08:54 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123733-2000.12.09-09.21.32--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>I've tried but cannot seem to find a way to get the secondaries started  
>again without the primary coming on line. If anyone knows how, please let  
>me know. I'm on the road, so my email will be intermittent, and my time  
>to work on the problem severely limited...

Well, they won't as long as they are secondaries. The thing to do is to tell the admins there to change their configs to be "primaries" until you get back on line. Send them the config files from your machine and all should be well until you get back on line. The root servers have no idea who is a primary and who is a secondary out of all the servers listed. That relationship is only conveyed in the bind configuration files!

-----

gregg@c2-tech.com (C2 Technologies Inc)

---

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Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

---

## 219. [aprssig] Re: Unwanted TROPIC WX Bulletins

From: Ralph Fowler <rwf@bsrg.org>  
Date: Sat, 09 Dec 2000 09:16:58 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: bob Bruninga <bruninga@usna.edu>  
Message-ID: <LYR842-123738-2000.12.09-09.30.33--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

If it will help preserve message memory in our rigs and keep them usable for other messaging purposes in addition to WX, I am all for it Bob!

Certainly Dale provides a useful service, however it is "force fed" to us (unless we use the power switch as a filter). I have missed several messages sent to me due to the memory filling up with the WX data. It isn't the only culprit. Last time I was in CA, I was constantly getting welcome messages from a digi hundreds of miles away in Arizona. Another area bombarded me with club meeting notices. All of these had to be deleted as fast as they streamed in because the message memory filled up with these localized announcements. I still believe that these types of things should go out no further than 1 digi (maybe 2 in special circumstances).

Before I even mentioned it, I read the manuals for the D700 (both of them) and verified that there was no way to have a suplist type of thing in APRS mode. In addition, I waited until someone else mentioned it, and further until you (WB4APR) mentioned it as well, along with a suggested fix.

If Dale decides to take his system off line just because 2 or 3 people brought up this problem and then one even suggested an improvement, then I'd bet that he was growing tired of providing it anyway and welcomed the excuse. So it goes when you are providing a free service and getting no thanks. I know the feeling - I have over 10 repeaters and 2 high site APRS digis.

I'd like to request that someone (preferably Dale) keep this system alive, and modify it just a bit so that we have a choice of collecting the data.

Thanks

---

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Questions regarding the SIG go to the SIG administrator: [wallou@tapr.org](mailto:wallou@tapr.org)

---

## 220. [aprssig] Re: Unwanted TROPIC WX Bulletins

From: "John W. (Bill) Hays" <[w00mvl@home.com](mailto:w00mvl@home.com)>  
Date: Sat, 09 Dec 2000 10:15:00 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-123739-2000.12.09-10.26.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I too, hope Dale continues!

73,  
Bill

Mark wrote:

>

> Please Dale I wish you would reconsider your decision. More folks like  
> myself should have stepped forward that last few days and expressed our deep  
> appreciation for all the work you have done. I have found that showing APRS  
> to non-hams...the WXSVR feed impresses them the most!...I truly believe  
> there are workarounds for folks who may whine about the message traffic  
> (please no flames). You hard work can truly bolster many SKYWARN  
> networks!...please continue!  
> Mark, NA4V  
> ----- Original Message -----  
> From: "Dale Huguley" <[kg5qd@earthlink.net](mailto:kg5qd@earthlink.net)>  
> To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>

---

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## 221. [aprssig] Not a panacea....

From: Jim Duncan <[ku0g@kcaprs.org](mailto:ku0g@kcaprs.org)>  
Date: Sat, 09 Dec 2000 10:12:24 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-123740-2000.12.09-10.31.25--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Gentlemen:

The Kenwood D-700A is NOT a panacea. It DOES have limitations and I think it's a little ridiculous for anyone to expect it to serve in the same function as a full-service APRS station. True, it does function quite nicely but the reality of APRS traffic should dictate to ANYONE using one of these wonderful radios that a computer is STILL the only way to ascertain that one gets all of ones messages.

I am totally disgusted to hear that Dale Huguley, who has (in my opinion) the most useful supplemental tool for APRS users out there has pulled the plug.

Our Skywarn operations in this area are going to seriously suffer without this vital service. Many of our storm spotters now use this data out in the field to keep abreast of current watches and warnings.

What a shame to see such a wonderful service yanked because of a few whiners. The loss of WXSVR is a tragedy.

I beg Dale to reconsider and reinstate the system. I see no reason whatsoever that a D-700/D-7 user shouldn't take some responsibility to ensure that he/she keeps up-to-date on their messages.

A much better solution would be for Kenwood to do a firmware upgrade which would automatically rollover old bulletins as new ones are received but not eliminate individual messages. That should keep everyone happy, I should think.

In a time where I have to continually justify to our staunchly anti-APRS Skywarn "Chief" in Kansas City why we should have APRS at the NWS Office, the loss of WXSVR really takes a LOT of the meat out of my "why this is important" debates.

The solution lies NOT in Dale shutting down, but in the local I-Gate operators making a decision to either allow the WX bulletins to pass out to VHF or not. It's a LOCAL issue, folks. If you don't want it, gripe to your local I-Gate operator but don't force the rest of the APRS world to suffer just because you're unhappy.

--

73 de Jim, KU0G  
Chairman/Coordinator  
Kansas City APRS Working Group, W0APR  
First Alert Storm Team KMBC-TV9  
Mailto:ku0g@kcaprs.org  
Webpage: <http://www.kcaprs.org>

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## 222. [aprssig] Icom 821

From: Robert Radmore <[rradmore@wzrd.com](mailto:rradmore@wzrd.com)>  
Date: Sat, 09 Dec 2000 11:34:42 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-123743-2000.12.09-10.47.21--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-123743-2000.12.09-10.47.21--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

I am trying to prepare a cable to connect a BayPac BP-1 to an Icom IC-821. I do not have access to the rig or a manual. Can anyone give me the Icom pin connections or a source of the information.

This is being done in order to introduce another ham to packet and then APRS.

Thanks

de Bob N2PWP

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## 223. [aprssig] Re: Unwanted TROPIC WX Bulletins

From: Valentino Sarro <[sarro@home.com](mailto:sarro@home.com)>  
Date: Sat, 09 Dec 2000 09:52:21 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-123746-2000.12.09-11.05.44--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-123746-2000.12.09-11.05.44--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

I asked a while ago if there could be a way to create other bulletin labels.... this was so someone could create a "local only" bulletin for a geographical area using aprsd server software. The problem with using your method below (which is by far the easiest): If you create a new label, such as TROPIC (or anything else)....it is still treated as a standard addressed message, with limited repeated TX, and waiting to be ACKed....I believe this is this correct, if not, someone set me straight I'd like to have a label that behaves like a BLN message. Any way of doing this?

Cheers,  
Tino, VE6SZR  
Calgary, Alberta

Bob Bruninga wrote:

> On Sat, 9 Dec 2000,  
>  
> You only have to change one line in your code. Instead of transmitting to  
> BLN#, you simply transmit to XXXXX where you can choose XXXXX to be TROPIC or  
> any other identifier you want.  
>  
> ALL APRS operators will still receive it. The D7 and D700's will not, unless  
> they place XXXXX in their MSG GROUPS.  
>  
> Bob  
>  
> ---  
> You are currently subscribed to aprssig as: [sarro@home.com](mailto:sarro@home.com)

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## 224. [aprssid] Re: Not a panacea....

From: Bob Bruninga <bruninga@usna.edu>  
Date: Sat, 9 Dec 2000 11:53:40 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssid@lists.tapr.org>  
Message-ID: <LYR842-123749-2000.12.09-11.10.19--lyris.aprssid@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Sat, 9 Dec 2000, Jim Duncan wrote:

> I see no reason whatsoever that a D-700/D-7 user shouldn't take some  
> responsibility to ensure that he/she keeps up-to-date on their messages.

Im sure that everyone reads their mail in the car when they are there.  
Its when they are out of the car and return an hour later that they may  
have missed mail they were waiting for.

> A much better solution would be for Kenwood to do a firmware upgrade  
> which would automatically rollover old bulletins as new ones are  
> received but not eliminate individual messages.

That is the way BULLETINS were designed. The numbers are supposed to be  
reused so that new bulletins REPLACE old ones of the same number. This is  
the way the system was designed and implemented in APRSdos back in 1994.  
Unfortunately, many of the newer authors never did it that way... THUS  
sequential bulletins just pile up and you can't edit them line-by-line  
over the air after the fact like you can with APRSdos.

> The solution lies NOT in Dale shutting down, but in the local I-Gate  
> operators making a decision to either allow the WX bulletins... or not.

No, that's throwing out the baby with the bath water. The simple change  
that only Dale can make and that would require no one else do do anything  
is to change them from bulletins to a MESSAGE GROUP. I am open to any  
problems that anyone might see with this way of doing it, but so far I  
can't think of any... So I am only suggesting this so we can all study it  
and determine if this is not a good solution...

de WB4APR, Bob

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---

## 225. [aprssid] Re: Unwanted TROPIC WX Bulletins

From: "G. W. Hester" <ke7ku@arrl.net>  
Date: Sat, 9 Dec 2000 11:14:5  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-123755-2000.12.09-11.26.31--lyris.aprssid@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 12/09/00, "Dale Huguley" <kg5qd@earthlink.net> wrote:

> Hi All-  
> I have a solution to the problem with all the weather stuff "clogging"  
> the system.  
> The WXSVR feed is now off-line. This project has not been any fun for a  
> year or so. I am now at the conclusion that aprs and weather related output  
> are not compatible. I have other things I want to do with Ham Radio and  
> fighting endless sig wars is not one of them.  
>  
> 73 de kg5qd Dale

I for one fully support Dale and the invaluable service he is/was  
providing.  
For those not interested in seeing TROPIC traffic, ask your local igate  
station if they would remove TROPIC from their stations text. That is  
providing a majority of other stations do no desire to see TROPIC traffic.

As a D700 owner, I just hit the delete button during the off season, also our local igate stops transmitting TROPIC unless we have an active storm in our vicinity, which by the way the storm track is Baja, Mexico.

I hate to see Dale go away, and when those who complain the most lose valuable property or loss of limb etc. because they did not get the word about the storm. They can not say someone had not previously tried to provide this service. Now we will start seeing the same storm at numerous locations, due to folks plotting the positions based on their last media info which is very unreliable at best due to being old news. The National Weather Service has come to rely on amateur radio operators who provide storm information.

Just my thoughts about this and I will miss this great service

G.W. Hester  
ke7ku@arrl.net  
NWS SKYWARN Coordinator for SW Arizona

---

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---

## 226. [aprssig] TAPR still down??

From: "BobD" <BobD@virtualconst.com>  
Date: Sat, 9 Dec 2000 13:28:36 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123764-2000.12.09-12.30.16--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I still can not reach TAPR.org

I'd like to get the new build of APRS/CE but can't :- (

>From a DOS window I ran TRACERT and it died after the 16th hop.

Here is the results:

C:\WINDOWS>tracert www.tapr.org

Tracing route to tapr.org [204.17.217.20]  
over a maximum of 30 hops:

|                   |        |        |        |                                              |
|-------------------|--------|--------|--------|----------------------------------------------|
| 1                 | 161 ms | 142 ms | 142 ms | e0-tc1-vinelnd-nj-1-10M.eticomm.net          |
| [205.246.208.82]  |        |        |        |                                              |
| 2                 | 142 ms | 156 ms | 137 ms | e0-gw1-vinelnd-nj-1-10M.eticomm.net          |
| [205.246.208.81]  |        |        |        |                                              |
| 3                 | 172 ms | 166 ms | 137 ms | s2.4-gw1-NOC-nj-1-T1.eticomm.net             |
| [205.246.211.41]  |        |        |        |                                              |
| 4                 | 161 ms | 180 ms | 202 ms | s5-0-0.philadelp1-cr1.bbnplanet.net          |
| [4.1.125.141]     |        |        |        |                                              |
| 5                 | 289 ms | 184 ms | 173 ms | 4.0.2.41                                     |
| 6                 | 178 ms | 171 ms | 175 ms | p7-0.nycmny1-ba1.bbnplanet.net [4.24.6.237]  |
| 7                 | 232 ms | 234 ms | 210 ms | a1-0.xnycmny4-uunet.bbnplanet.net            |
| [4.0.6.142]       |        |        |        |                                              |
| 8                 | 177 ms | 194 ms | 189 ms | 0.at-6-0-0.XL1.NYC9.ALTER.NET                |
| [152.63.18.222]   |        |        |        |                                              |
| 9                 | 150 ms | 161 ms | 184 ms | 0.so-7-0-0.XR2.NYC9.ALTER.NET                |
| [152.63.23.142]   |        |        |        |                                              |
| 10                | 193 ms | 244 ms | 197 ms | 0.so-3-0-0.TR2.NYC9.ALTER.NET [152.63.22.94] |
| 11                | 229 ms | 233 ms | 300 ms | 125.at-5-0-0.TR2.HOU7.ALTER.NET              |
| [152.63.4.221]    |        |        |        |                                              |
| 12                | 269 ms | 268 ms | 259 ms | 186.ATM7-0.XR2.HOU4.ALTER.NET                |
| [152.63.99.161]   |        |        |        |                                              |
| 13                | 263 ms | 273 ms | 285 ms | 192.ATM11-0-0.GW1.HOU5.ALTER.NET             |
| [146.188.242.125] |        |        |        |                                              |
| 14                | 318 ms | 304 ms | 351 ms | twtelecom.tx-gw.customer.ALTER.NET           |
| [157.130.135.134] |        |        |        |                                              |
| 15                | 233 ms | 249 ms | 254 ms | atm0-0-0-12-acr02.hsto.fibr.net              |
| [207.235.32.70]   |        |        |        |                                              |
| 16                | 256 ms | 336 ms | 299 ms | atm0-0-0-11-acr02.snan.fibr.net              |
| [207.235.32.58]   |        |        |        |                                              |
| 17                | *      | *      | *      | Request timed out.                           |
| 18                | *      | *      | *      | Request timed out.                           |
| 19                | *      | *      | *      | Request timed out.                           |
| 20                | *      | *      | *      | Request timed out.                           |
| 21                | *      | *      | *      | Request timed out.                           |
| 22                | *      | *      | *      | Request timed out.                           |

```
23      *      *      *      Request timed out.
24      *      *      *      Request timed out.
25      *      *      *      Request timed out.
26      *      *      *      Request timed out.
27      *      *      *      Request timed out.
28      *      *      *      Request timed out.
29      *      *      *      Request timed out.
30      *      *      *      Request timed out.
```

Trace complete.

Ping failed completely, the IP address was resolved but timed out on four tries.

```
C:\WINDOWS>ping www.tapr.org
```

Pinging tapr.org [204.17.217.20] with 32 bytes of data:

```
Request timed out.
Request timed out.
Request timed out.
Request timed out.
```

```
Ping statistics for 204.17.217.20:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

So what's up? This has been going on for over a week for me.

Anyone else having the same problem?

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## 227. [aprssig] Iridium saved?

```
From: "BobD" <BobD@virtualconst.com>
Date: Sat, 9 Dec 2000 13:35:47 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-123765-2000.12.09-12.36.58--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

Yes, it looks like the DOD has come to the rescue for the new Iridium Satellite LLC.  
They need the capacity as their own systems are over-worked.

See;

<http://spaceflightnow.com/news/n0012/07dodiridium>

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## 228. [aprssig] Re: TAPR still down??

```
From: "Jeff Brenton" <jeffb@espi.com>
Date: Sat, 9 Dec 2000 12:39:16 -0600
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: "aprssig" <aprssig@tapr.org>
Message-ID: <LYR842-123766-2000.12.09-12.51.25--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

ftp.tapr.org works here... both with Internet Explorer and WS FTP Pro.

PING and TRACEROUTE are becoming increasingly useless for testing, because more and more systems are blocking the packets that make them work. For example, my former ISP had their upstream ISP (alter.net) block all inbound ping/trace packets at the alter.net Chicago gateway.

I can't explain why you would have trouble, when my packets go through, but it's not unheard of to have localized routing problems. But, your tracert



output shows you were getting pretty close...

Jeff Brenton, Amateur Radio call sign KA9VNV  
<http://espi.com>  
Questionable web page: <http://dididahdidit.com>  
That strange feeling that you've never  
done this before: <http://uvajed.espi.com>

"Modern Liberalism: The embodiment of an irrational fear of  
letting other people run their own lives."

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## 229. [aprssig] Re: TAPR still down??

From: Zachary Michael <[kb9uqq\\_2000@yahoo.com](mailto:kb9uqq_2000@yahoo.com)>  
Date: Sat, 09 Dec 2000 14:49:57 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-123772-2000.12.09-14.00.03--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-123772-2000.12.09-14.00.03--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

I am having no trouble accessing the TAPR website. As a matter of fact I was  
downloading some files earlier. If you want me to donwload the file and send it  
to you, I can.

--

Thanks,  
Zachary Grant Michael, KB9UQQ,  
KB9UQQ-1, KB9UQQ-9, KB9UQQ-10  
Hartford City, Blackford County, Indiana, EN70  
E-Mail: [kb9uqq@tawg.org](mailto:kb9uqq@tawg.org)  
TAWG Coordinator  
<http://www.tawg.org/>  
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Zach's APRS Webpages  
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Zach's Digi  
<http://www.findu.com/find.cgi/kb9uqq-10>  
APRS Frequency: 144.390 MHz Simplex  
SSTV Frequency: 146.460 MHz Simplex

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## 230. [aprssig] Re: Wireless Mobile Workstation URL

From: "Ian Millett, N3CVA" <[n3cva@erols.com](mailto:n3cva@erols.com)>  
Date: Sat, 9 Dec 2000 15:10:42 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-123775-2000.12.09-14.25.18--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-123775-2000.12.09-14.25.18--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Bob,

Resources Un-Limited can be found at <http://www.resunltd4u.com/>  
SEARCH for Itronix or terminal

Advertisers in Nuts and Volts are listed at  
<http://www.nutsvolts.com/adlinks.htm>

Ian, N3CVA

> Subject: Re: Wireless Mobile Workstation  
> From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
> Date: Fri, 8 Dec 2000 09:33:24 -0500 (EST)  
> X-Message-Number: 4  
>  
> On Thu, 7 Dec 2000, Glenn Little wrote:

>  
> > This is advertised in Nuts & Volts magazine Dec 2000 issue page 31 by  
> > Resources un-limited ( info@resunltd4u.com ). They are advertised at  
>  
> Sounds like a great possibility.  
> That URL didnt work. Coiuld there be a typo?  
>  
> Bob

---

## 231. [aprssig] Re: Unwanted TROPIC WX Bulletins

From: Gary Arnold <garnold@naples.net>  
Date: Sat, 09 Dec 2000 15:33:12 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123780-2000.12.09-14.48.23--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

To the sig:

I rarely post to the sig as a whole preferring to work with others one on one on problems, projects and help. But I'll make an exception here. I've been very close to the WXSVR situation, and was involved in it's earliest inceptions with Dale seven or eight years ago when packet BBSs were in the heyday. (Remember them?)

Dale's a very good friend and I talk nearly every day, and we talked this morning, even before I checked my mail. He told me of his decision to pull the plug...and I've seen the messages from those who'd like him to reconsider. Right now it ain't gonna happen...maybe later, maybe in an entirely different incarnation, but I wouldn't hold my breath. He's had it...and he's not alone!

His system is still posting ALL wx data through the WB2WPA-4 digi at our EOC, but it's a single digi path. It will continue. We haven't heard any complaints from the surrounding counties. The digi is at our EOC, and the WinAPRS map shows EVERYTHING that is active, nationally...and there's plenty of room for other traffic from around the state and nation. But that's just our opinion.

If others don't want it that's fine. And it shouldn't be a problem now for those who don't want it. Dale's decision also makes one of our near future projects a lot simpler. We were planning to move his server to the EOC where a full time T1 connection, a satellite EMWIN feed, and redundant backup power are available. Now we can just take the data in off the satellite or internet backup and handle it locally.

Dale spent, literally, thousands of hours developing and fine tuning the service, making it a reliable and bullet proof as possible, taking into consideration that there might be some stations who didn't want the data. He made it possible to ignore the data at I-gates through proper configuration, so that all, nothing, or selected local data only could be available via RF. He's presented workshop sessions at the Florida Governor's Hurricane Conference for the past three years on the project (I also took it to the National Hurricane Conference in New Orleans this year when Dale couldn't attend) where it's been hailed as a tremendous service, in the true spirit of amateur radio's ability to develop new means of communicating critical public service information.

It's part of a south Florida weather network which relays current local weather information to NWS offices in Miami and Ruskin, FL., as well as the National Hurricane Center, and includes one of the largest metro areas in the nation along Florida's dimple-chaddened southeast coast. Many of us down here don't really care about following live realtime ballon events from 1500 miles away, or a football relay, but others do. Let it rip! It keeps interest up, provides a public service, increases our pool of trained operators (from the front of Part 97 for those who haven't read it lately). If we aren't interested we just don't pay a lot of attention.

Looks as though this thread has reached the end. So, there should be plenty of bandwidth for rehashes of AMSAT bashing, complaining about coordinators, software and authors, dreams of interplanetary APRS (plotting the location of the "2001" monoliths next year?), and other topics related to seeing more than where our fixed stations are located.

For those who'd like to encourage Dale to reconsider, you'll have to contact him directly. Don't bother the sig...he's unsubscribed.

Too bad...another good use of technology killed off because some don't want to have to use a delete key. The whiners have not only killed the messages, but have driven a strong supporter of APRS...ALL flavors...away. But it's not the first time...we haven't heard much from Mark and Keith, or Steve, or other developers lately either. Maybe their just as sick of the bickering as Dale...and others.

Mark wrote:

>  
> Please Dale I wish you would reconsider your decision. More folks like  
> myself should have stepped forward that last few days and expressed our deep  
> appreciation for all the work you have done. I have found that showing APRS  
> to non-hams...the WXSVR feed impresses them the most!...I truly believe  
> there are workarounds for folks who may whine about the message traffic  
> (please no flames). Your hard work can truly bolster many SKYWARN  
> networks!...please continue!  
> Mark, NA4V  
> ----- Original Message -----  
> From: "Dale Huguley" <kg5qd@earthlink.net>  
> To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
> Sent: Saturday, December 09, 2000 6:23 AM  
> Subject: [aprssig] Re: Unwanted TROPIC WX Bulletins  
>  
> > Hi All-  
> > I have a solution to the problem with all the weather stuff "clogging"  
> > the system.  
> > The WXSVR feed is now off-line. This project has not been any fun for a  
> > year or so. I am now at the conclusion that aprs and weather related  
> > output  
> > are not compatible. I have other things I want to do with Ham Radio and  
> > fighting endless sig wars is not one of them.  
> >  
> > 73 de kg5qd Dale

---

Gary Arnold, WB2WPA  
Coordinator, Collier County Emergency Management  
garnold@naples.net  
EM Home Page: <http://www.collierem.org/>  
Mirror site: <http://www.colliergov.net/emergency/>

---

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---

## 232. [aprssig] Re: Unwanted TROPIC WX Bulletins

From: "Dick Stanich" <dstanic@c2i2.com>  
Date: Sat, 9 Dec 2000 15:23:9  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123785-2000.12.09-15.34.55--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Very sad indeed! I run the Yuma Igate that provides the feed to hundreds of locals. It has been an invaluable service to hams in our area for a long time. My coverage is the southwestern U.S. As Wayne (KE7KU) mentioned in his message, there are ways stop the re-broadcasts from happening. The NWS warnings have provided enough of an early warning for our EOC and other public service units to prepare, in time, for many WX events. County maps would light up for the effected areas.

We have spent considerable time making this system work in the southwest. And, it's sad that a few nay-sayers don't understand how easy it is to turn the warnings on/off at their stations.

I remember not long ago a hurricane that ripped through the Yuma area. TROPIC and other valuable WX info. via APRS provided the real picture, that could be depended upon, at a public service level.

APRS is many things to many hams. Why limit/stop something because of the few that provoke others, because they understand so little?

We have gone a long way with this (wx stuff), and I'd really hate to see our efforts wasted for the foolish comments of a few.

Dick, KB7ZVA  
SouthWest Arizona APRS Group

---

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---

### 233. [aprssig] Re: Unwanted TROPIC WX Bulletins

From: David VanHorn <dvanhorn@cedar.net>  
Date: Sat, 09 Dec 2000 16:31:47 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: kg5qd@earthlink.net  
Message-ID: <LYR842-123786-2000.12.09-15.46.01--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>Too bad...another good use of technology killed off because some don't  
>want to have to use a delete key. The whiners have not only killed the  
>messages, but have driven a strong supporter of APRS...ALL  
>flavors...away. But it's not the first time...we haven't heard much  
>from Mark and Keith, or Steve, or other developers lately either. Maybe  
>their just as sick of the bickering as Dale...and others.

Another weather related function that bites the dust.  
Can we make APRS even LESS useful for severe weather ops, if we try REAL HARD?  
Wasn't that one of the things that this was supposed to be good for?

I've been pounding on our county, and surrounding counties, to use APRS for severe weather operations. Nevermind that a large section of WinAPRS weather features just plain don't work. I had faith that they'd get fixed. Nevermind the hours and money I've put into taking this forward. I had faith that it was worth it. I saw what could be done with the technology, and I was succesful, along with others in getting them to see what could be done. I've registered dosaprs, winaprs, UI-View, and PalmAPRS (and would have done for Xastir, if he was taking money), put up a digi, home igate, and 24/7 EOC station, helped with the development of the HamHud, elmered a bunch of people, and invested a fair chunk into my own gear.

However, I don't have a workable program for severe weather ops.  
Bugs that were reported literally years ago, are still there.

I've got a way that we could have multiple serial ports. Up to eight ports, full stream full duplex. Any device can have the data from another, the host gets it all. No switching, no trashed packets. I've offered to work with ANY aprs developers to make it available. I can't get any action out of ANY APRS authors to support it. Sprouls have been promising me "real soon" for over a year. I've been waiting, with hardware built, and software written.....

I wonder if they understand what they do to other developers, when they say "real soon", and it turns into never... I make commitments based on their commitment to me, and I end up looking like an idiot. People put out development money (not trivial sums) which ends up in the trash, because "real soon" really means "Not in the foreseeable future".

More than once, I've been tempted to scrub the whole thing, and go do something else, and as you may have guessed, I'm about there again.

This spring, we used APRS extensively with our spotters, (and brought in a couple new hams, who immediately became APRS capable), even got to use APRS and SSTV in tracking two tornadoes. (Anyone remember APRN??) The local NWS office is <<VERY>> interested in this.

Today, we had our first NWS "technology day" where we operated APRS, SSTV, and PSK31.  
This was driven from the Indianapolis NWS office, so apparently they are starting to take notice.

Maybe there's some light in the tunnel. Maybe we'll manage to make it be a train.

I've got a winter storm season to get through, where we're hoping to use APRS to coordinate highway patrols, and operate shelters if the need arises, and of course another tornado season following that. I'm going to use it for some DF work this year, and see how that goes. Of course it would go better with a real multiport adaptor, but I already vented about that. Toggling between serial data streams with relays and switches is just silly.

But I certainly understand Dale's position.

I'm sorry to see another one of the major lights on the tree gone dark.

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

---

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---

## 234. [aprssig] Re: Unwanted TROPIC WX Bulletins

From: "Chris Schwab" <1schwab1@tampabay.rr.com>  
Date: Sat, 9 Dec 2000 16:29:28 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123787-2000.12.09-15.50.12--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Dale,

I understand that you have unsubscribed from the SIG, but I am going to cc:  
it for a point.

If you are truly interested in pulling the plug, what would it take for me  
to take it over? I have the bandwidth either at home, or at work, and would  
not have any problems taking over the feed of the WXSVR to the internet.

The way that I see it, there is always the "delete" key to delete messages,  
and that the "whiners" can take it elsewhere. There are many uses for APRS,  
and the WXSVR happens to be one. What if I started a complaint about the  
earthquake info? Is the person that puts that out going to shut it down? Do  
I use that information? NO! Do I care about the guys tracking ballons in  
Georgia or North Carolina? Again, No! But, I realize that for me to be able  
to use the rest of the information that is on the internet feed, I might  
have to sort through some stuff that I don't want. I'm not going to start  
whining about it.

Again, thanks for the support of the WX info in the past, and if you are  
truly not going to turn it back on, please contact me at n4bsa@arrl.net and  
let me know what I can do to take over the feed.

Thanks!  
Chris Schwab  
N4BSA

-----Original Message-----

From: bounce-aprssig-2015@lists.tapr.org  
[mailto:bounce-aprssig-2015@lists.tapr.org] On Behalf Of Dale Huguley  
Sent: Saturday, December 09, 2000 6:24 AM  
To: TAPR APRS Special Interest Group  
Subject: [aprssig] Re: Unwanted TROPIC WX Bulletins

Hi All-

I have a solution to the problem with all the weather stuff "clogging"  
the system.  
The WXSVR feed is now off-line. This project has not been any fun for a  
year or so. I am now at the conclusion that aprs and weather related output  
are not compatible. I have other things I want to do with Ham Radio and  
fighting endless sig wars is not one of them.

73 de kg5qd Dale

---

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---

## 235. [aprssig] Re: Unwanted TROPIC WX Bulletins

From: Ralph Fowler <[rwf@bsrg.org](mailto:rwf@bsrg.org)>  
Date: Sat, 09 Dec 2000 18:16:28 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-123793-2000.12.09-17.31.28--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-123793-2000.12.09-17.31.28--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Chris-

You must be missing the point of what was being "whined" about. The issue is NOT about data on the Internet feed! It is about the re transmitting of it into areas that it have no remote need for it whatsoever at the time.

Did balloon tracking posits come into your local RF network from the Internet and inhibit your APRS station from receiving any specific messages that were for you? I didn't think so. Did you see them on the Internet feed? I hope so. WB8ELK and a lot of other folks were watching for them.

What we are talking about here are unsolicited, nonstop bulletins that are induced into a local network from a distant server over and over to the point that certain APRS stations (doesn't matter if they are D7, D-700, APRS DOS, WinAPRS or TI-994A APRS platforms) choke. All that is being asked is to have them be sent in a way that doesn't undermine other operations.

The original poster (or as you call him: "whiner") simply asked why someone in NJ or somewhere else up North was getting his memory filled with weather alerts from California or Florida.

True- the delete key can be (and is) used when the owner of the APRS station returns to the console or vehicle. However it only takes a couple of wordy bulletins that take 3-4 messages each to transmit before the available message space is filled. Believe me- I have seen it happen in less than an hour.

No one is casting doubt on the value of severe weather messages or of Dale's service. That is far from the truth. I wouldn't care if they came every 5 minutes if it was something that was going to affect my area within the next 24 hours- or 48 or 72 for that matter. It's just that there are better ways of communicating that type of info once it is so irrelevant that it isn't immediately mission critical. All of you would be irritated if your NWS weather alert receiver went off because a tornado was headed out of Alabama... EXCEPT for those of you in the path of it in Alabama or Georgia (or Florida).

What is so wrong with altering it so that the alerts are more appropriate to the area in which they are being streamed?

No matter who, if anyone, takes it over- we will have the same problem unless some guidelines for re transmission are developed.

At 04:29 PM 12/9/00 -0500, you wrote:

>The way that I see it, there is always the "delete" key to delete messages,  
>and that the "whiners" can take it elsewhere. There are many uses for APRS,  
>and the WXSVR happens to be one. What if I started a complaint about the  
>earthquake info? Is the person that puts that out going to shut it down? Do  
>I use that information? NO! Do I care about the guys tracking ballons in  
>Georgia or North Carolina? Again, No! But, I realize that for me to be able  
>to use the rest of the information that is on the internet feed, I might  
>have to sort through some stuff that I don't want. I'm not going to start  
>whining about it.  
>Again, thanks for the support of the WX info in the past, and if you are  
>truly not going to turn it back on, please contact me at [n4bsa@arrl.net](mailto:n4bsa@arrl.net) and  
>let me know what I can do to take over the feed.  
>Thanks!  
>Chris Schwab

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## 236. [aprssid] Re: Unwanted TROPIC WX Bulletins

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Sat, 9 Dec 2000 18:45:20 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-123794-2000.12.09-17.57.39--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-123794-2000.12.09-17.57.39--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

On Sat, 9 Dec 2000, Valentino Sarro wrote:

> using aprsd server software. The problem with using your method below  
(which is  
> by far the easiest): If you create a new label, such as TROPIC (or  
anything  
> else)....it is still treated as a standard addressed message, with  
limited  
> repeated TX, and waiting to be ACKed....

It is only WinAPRS that transmits and quits. But is that bad?  
These WX messages transmitted 5 times should have been captured by  
everyone by then? Also, the sending station (DALE'S PROGRAM) can set the  
time out as needed.

Also, your EMAIL program is set to lines longer than 80 characters and are  
all split on receipt as shown above. Makes them hard to read...

Bob

>  
>  
> Bob Bruninga wrote:  
>  
> > On Sat, 9 Dec 2000,  
> >  
> > You only have to change one line in your code. Instead of transmitting to  
> > BLN#, you simply transmit to XXXXX where you can choose XXXXX to be TROPIC or  
> > any other identifier you want.  
> >  
> > ALL APRS operators will still receive it. The D7 and D700's will not, unless  
> > they place XXXXX in their MSG GROUPS.  
> >  
> > Bob  
> >  
> > ---  
> > You are currently subscribed to aprssid as: [sarrov@home.com](mailto:sarrov@home.com)  
> > To unsubscribe send a blank email to [leave-aprssid-842K@lists.tapr.org](mailto:leave-aprssid-842K@lists.tapr.org)  
> > Questions regarding the SIG go to the SIG administrator: [wallou@tapr.org](mailto:wallou@tapr.org)  
>  
>  
> ---  
> You are currently subscribed to aprssid as: [bruninga@usna.edu](mailto:bruninga@usna.edu)  
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> Questions regarding the SIG go to the SIG administrator: [wallou@tapr.org](mailto:wallou@tapr.org)  
>  
>

APRSDos REPLY/COMMENT:

Reply mail addr: [wb4apr@amsat.org](mailto:wb4apr@amsat.org)  
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060  
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>  
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>  
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

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---

## 237. [aprssid] Re: TM D-700A Info

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Sat, 9 Dec 2000 19:03:06 -0500 (EST)

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@tapr.org>  
Message-ID: <LYR842-123796-2000.12.09-18.15.22--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Sat, 9 Dec 2000, EDWARD COLLINS wrote:

> >>  
> >> I just picked up a copy of the D-700 Service Manual, just released by  
> >> Kenwood, at Universal in Columbus, OH. They ordered it for me last May  
> >> after I bought the radio. Price was relatively reasonable at \$20.00  
> >> (cheap!). You might want to let D-700 users know the manual is  
> available.  
> >> No Service Manuals for the TH D7A yet. It should be out next year.  
> Lots  
> >> of interesting info on how the radio works.  
> >>  
> >> Ed Collins  
> >> N8NUY  
> >>  
> >>  
> >>  
> >APRSdos REPLY/COMMENT:  
> >  
> >Reply mail addr: wb4apr@amsat.org  
> >US mail address: 115 old Farm Ct, Glen Burnie, MD 21060  
> >See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>  
> >See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>  
> >See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>  
> >  
> >  
> >  
> >  
> >

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org  
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060  
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>  
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>  
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

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---

## 238. [aprssi] Re: Unwanted TROPIC WX Bulletins

From: Bob Bruninga <bruninga@usna.edu>  
Date: Sat, 9 Dec 2000 19:12:33 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123798-2000.12.09-18.25.21--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Sat, 9 Dec 2000, Gary Arnold wrote:

> Too bad...another good use of technology killed off because some don't  
> want to have to use a delete key. The whiners have not only killed the  
> messages, but have driven a strong supporter of APRS...ALL

Well, I am surprised at this attitude. I thought I was trying to find a workable solution for everyone. Since I understand the protocol pretty well there are LOTS and LOTS of capabilities that 90% of the users do not use frequently nor understand its potential for solving many issues.

When I see such items, I try to point users to use these features to help make sure that those that need certain types of data get them reliably, those that don't care, still do get to see them by looking, and those that don't want to see them can filter them.

All these features are built into the APRS protocol if just used correctly. I think it is better to work together to find the best ways to use these features... MESSAGE GROUPS are once such powerful capability.

de WB4APR, Bob

---



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---

## 239. [aprssig] WX data. Discussing Solutions.

From: Bob Bruninga <bruninga@usna.edu>  
Date: Sat, 9 Dec 2000 19:45:12 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123799-2000.12.09-18.57.27--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Common guys, cool it.

There are problems and there are solutions. The purpose of this sig is to work together to discover the problems and to come up with solutions.

When someone reports a problem, I don't think of it as whining, but as documenting a situation. If it is his problem, then teach him how to fix it. If it is our problem, lets fix it. I have seen these "situations" reported on the sig:

- 1) TROPIC Bulletins serve very many people and are very important
- 2) Some areas appear to receive unrelated bulletins..
- 3) D7 and D700 users (75% of mobile stations) fill up after 16 bulletins and begin rejecting all new traffic, including messages to them.

I had not been aware of #3 before. I do see this as something we need to look at to see if we can find a way around it. The only solutions I have seen are:

- 0) Rant and rave about it and stamp your foot
- 1) Pull-the-plug
- 2) SHutting down IGates
- 3) Try sending the TROPIC info as a MSG GROUP instead of BULLETINS

Yet not one single person has commented on #3. #3 works fine for APRSdos and the D7 and D700's. I have those. But I need help understanding if all the other programs would do it right. To discover these things, we need people testing thigs and giving feedback. Many of the APRS programs have not implemented many things in the protocol the same way.

I dont even know which ones support MSG GROUPS that have been around since 1996. And I dont think I have ever seen a TROPIC "BULLETIN" on my APRSdos system (though they do fill my D700 when I am out of area). so I am only going on what has been reported to me... Maybe the person who says they are bulletins is missinformed and has lead me astray. If so, tell me. Dont rant and rave.

It used to be that I could say "things work this way, or that way", but now that there are dozens of authors of dozens of versions of ARPS, there is NO ONE that knows how all of APRS works anymore. THus we need to work together to find solutions, not just yell back and forth...

de WB4APR, Bob

---

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---

## 240. [aprssig] Re: Unwanted TROPIC WX Bulletins

From: "Chris Schwab" <1schwab1@tampabay.rr.com>  
Date: Sat, 9 Dec 2000 21:30:47 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123801-2000.12.09-20.49.46--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

All:

Two things (without quoting the whole message)

>> The original poster (or as you call him: "whiner") simply asked why someone in NJ or somewhere else up North was getting >>his memory filled with weather alerts from California or Florida.

A) If it's being fed in the local RF network in NJ (or anywhere), it's the IGATE operator that needs to be talked to (unless you're in Florida, then

you might be getting it direct). If there is an issue with too much data being in the local RF network, talk to the IGATE operator that is putting it out. It's not Dale's issue.

B) I agree with Bob's statement.. Why not use message groups? I think that would be one of the best solutions to keep the D7's & 700's from filling.

I found Dale's service to be a tremendous value, and I'm truly upset that because of "whiners" that he decided to shut it down, instead of trying to find a means to find a way to compromise. I volunteered to take it over because I don't want to see it go.

Chris

---

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---

## 241. [aprssig] Junk Mail (RECOUNT)

From: Bob Bruninga <bruninga@usna.edu>  
Date: Sat, 9 Dec 2000 22:40:02 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123802-2000.12.09-21.52.49--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

This has nothing to do with APRS, I appologize in advance, and I am NOT INVITING ANY COMMENT. I only pass it along because it is a raw data file that others might be interested in playing with.

But tonights newspaper published the totals of ballots in all counties in florida. Its the first time I have seen real numbers instead of media hype. I wrote a quick routine to see what would happen if all the undercounts were split by the same ratio as all the other votes in the same counties.

The result was different than what I had been led to believe in the histerical media. It increased the difference instead of reversing it.

If you want a copy to play with in your own spread sheets, email me direct.

Sorry to everyone else. I wont do this again...

Bob

THE file is just a list like this:  
COUNTY, BUSH, GORE, UNDERCOUNT  
xxxx, bbbbbb, gggggg, nnn  
etc

---

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---

## 242. [aprssig] KPC-2 configuration question

From: Michael Martens <kb9vbr@yahoo.com>  
Date: Sat, 9 Dec 2000 19:56:39 -0800 (PST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123816-2000.12.09-22.08.49--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

We've got a station that we are trying to get on the air with using a Kantronics KPC-2. We are unable to see any objects on the APRSDos screen. We are though, able to view the incoming packets if we use a terminal program (Procomm). APRSDos is also unable to communicate with the TNC, even though we are able to communicate to it via a terminal program.

Now here is the strange part, the TNC is digipeating aprs packets. This station is showing up in digipeat paths. The TNC used to be used for a local BBS and packet node before it was mothballed a couple years ago. So we are not sure how it is configured.

Does anyone else use a KPC-2 with APRSDos and have any  
setup/configuration recommendations? We would really  
like to get this machine on the year.

Thanks  
Michael  
KB9VBR

---

Do You Yahoo!?  
Yahoo! Shopping - Thousands of Stores. Millions of Products.  
<http://shopping.yahoo.com/>

---

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---

## 243. [aprssig] Re: KPC-2 configuration question

From: David VanHorn <[dvanhorn@cedar.net](mailto:dvanhorn@cedar.net)>  
Date: Sat, 09 Dec 2000 23:21:26 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-123817-2000.12.09-22.36.02--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-123817-2000.12.09-22.36.02--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

>Does anyone else use a KPC-2 with APRSDos and have any  
>setup/configuration recommendations? We would really  
>like to get this machine on the year.

I do, at the county EOC. (winAPRS)  
It takes some different settings.  
I can copy them off, and email to you..  
Remind me tomorrow, and I'll send you my init and shutdown files.

It's a perfectly servicable TNC as long as you have a program running it,  
to give it some brains.

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

---

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Questions regarding the SIG go to the SIG administrator: [wallou@tapr.org](mailto:wallou@tapr.org)

---

## 244. [aprssig] Re: KPC-2 configuration question

From: "Jeff Brenton" <[jeffb@espi.com](mailto:jeffb@espi.com)>  
Date: Sat, 9 Dec 2000 22:41:32 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: "aprssig" <[aprssig@tapr.org](mailto:aprssig@tapr.org)>  
Message-ID: <[LYR842-123819-2000.12.09-22.53.26--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-123819-2000.12.09-22.53.26--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

> KPC-2 not showing symbols on map

There are TNC 5 settings that MUST be correct, or various parts of APRS will  
not work. Those are:

HEADERLN OFF  
PACLEN 0  
MCON OFF  
MCOM OFF  
SCREENLN 0

I'd suspect you have HEADERLN ON...

Or, you might have HOST mode enabled... Which terminal program are you  
using? If it's the one that came from Kantronics, it leaves the TNC in HOST  
mode, which is incompatible with APRS programs. From within WinAPRS, you can  
go to the TNC commands, and disable host mode there...

Jeff Brenton, Amateur Radio call sign KA9VNV  
<http://espi.com>  
Questionable web page: <http://dididahdidit.com>  
That strange feeling that you've never  
done this before: <http://uvajed.espi.com>

"Modern Liberalism: The embodiment of an irrational fear of letting other people run their own lives."

---

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---

## 245. [aprssig] weather bulletins,bandwidth etc.

From: "Art Snapper" <art@nk8x.net>  
Date: Sun, 10 Dec 2000 01:46:35 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123846-2000.12.10-00.57.35--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

This type of discussion always seems to occur as the data circuit reaches capacity. We need to consider the implementation of an additional high-capacity RF circuit for non-positional information. APRS is MORE than just tracking. I see it as a possible future conduit into VoIP digital radio among other things.

We are trying to accomplish several tasks on one channel.

1. Position reports/mapping/networking.
2. Weather Alerts.
3. Seismic Alerts.
4. Messaging.

We are merely encountering growing pains in one of the few remaining"hi-tech" areas of amateur radio. I am constantly amazed by the unique ideas discussed in this thread.  
While driving to work the other day, a seismic alarm displayed on my palm pilot via the aprs network. The activity was in California and I am in Michigan. Shortly thereafter, a satellite icon popped up!. I tried to explain this to my co-workers, but they just shook their heads in disbelief!

This is what amateur radio is all about....

Art....  
<http://www.nk8x.net/findart.htm>

---

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---

## 246. [aprssig] Re: Unwanted TROPIC WX Bulletins

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Sat, 09 Dec 2000 19:22:39 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123866-2000.12.10-02.07.40--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 03:33 PM 12/9/00 -0500, Gary Arnold blasted the following out into the ether:  
><snip>  
>Too bad...another good use of technology killed off because some don't  
>want to have to use a delete key.

Those Kenwood rigs that are SO susceptible to bugs have to shoulder part of the blame.

Earl

Earl Needham, KD5XB      mailto:KD5XB@AMSAT.ORG  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

---

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## 247. [aprssid] Re: APRSCE

From: James Smith <[k9apr@tawg.org](mailto:k9apr@tawg.org)>  
Date: Sun, 10 Dec 2000 04:45:40 -0500  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-123867-2000.12.10-04.01.28--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-123867-2000.12.10-04.01.28--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

The ftp side of TAPR seems to be working, you can view Rob's at two spot's <http://www.tapr.org/~aprsc> or <http://www.tawg.org/aprsc.htm> .  
The second link is provided as a back up and is provided with permission of Rob KZ5RW...

--  
73, James, K9APR  
Chairman \ Coordinator  
Tri-State APRS Working Group  
<http://www.tawg.org>  
APRS Webring <http://www.tawg.org/join.htm>

---  
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---

## 248. [aprssid] Re:Unwatned Wx data

From: James Smith <[k9apr@tawg.org](mailto:k9apr@tawg.org)>  
Date: Sun, 10 Dec 2000 05:15:46 -0500  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-123868-2000.12.10-04.31.41--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-123868-2000.12.10-04.31.41--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

I have two second all of the comments made, Dale is one of heck guy. I spoke at link with him at Dayton about Wx stuff we must have chatted for hours it seemed. The bottom line is you can't make everyone happy right? right. Like anything you have the two option deal On/Off on your equipment right aren't I. Like Jim (KU0G) it becomes a hard sell to the op's at NWS on the usefulness of APRS if their isn't no data to pass from TOPIC or any other sources.

As a friend Dale, please reconsider your decision and continue doing the fine work you have done over the years. Remember You Can't Make Everyone Happy this is a Ham Radio.

Sincerely,

--  
73, James, K9APR  
Chairman \ Coordinator  
Tri-State APRS Working Group  
<http://www.tawg.org>  
APRS Webring <http://www.tawg.org/join.htm>

---  
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## 249. [aprssid] Re: Unwanted TROPIC WX Bulletins

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Sun, 10 Dec 2000 08:14:14 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-123901-2000.12.10-07.25.52--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-123901-2000.12.10-07.25.52--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

On Sat, 9 Dec 2000, Earl Needham wrote about the TROPIC Bulletins:

> Those Kenwood rigs that are SO susceptible to bugs have to shoulder  
> part of the blame.

Its not a bug. The APRS BULLETIN format was designed for \*everyone\* to see. BULLETINS were supposed to be brief one-liners conveying special

information to all users. Kenwood radios were designed to get these special BULLETINS to their users.

Here is another idea. Let the verbose multi-line TROPIC data be transmitted as a MESSAGE GROUP so that everyone gets it on their message or traffic pages, then at the end, send a ONE-LINE BULLETIN that announces that the TROPIC message is available under a MSG GRP. For example....

```
SENDER>APRS::TROPIC :Here is line one of a the tropic broadcast
SENDER>APRS::TROPIC :Here is the second line of the tropic msg
SENDER>APRS::TROPIC :Here is the Nth line of the tropic message
SENDER>APRS::BLN1 :WX Bulletin XXX is now posted in TROPIC MSG GRP
```

Would someone confirm that WinAPRS now supports message groups? For years it did not, and since most people's view of APRS is only through WinAPRS, that might explain why the feature is not used nor widely understood?

Bob

---

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---

## 250. [aprssig] Re: Unwanted TROPIC WX Bulletins

From: "Chris Schwab" <[1schwab1@tampabay.rr.com](mailto:1schwab1@tampabay.rr.com)>  
Date: Sun, 10 Dec 2000 08:13:53 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-123902-2000.12.10-07.35.37--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-123902-2000.12.10-07.35.37--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Bob,

I'm not sure about WinAPRS, but isn't this whole discussion on the D7/700 filling up? Even if WinAPRS doesn't support it, they still should show up in the message list where you (almost) don't have to worry about running out of message space.

How would I test it here locally?

Chris  
N4BSA

-----Original Message-----

From: [bounce-aprssig-2015@lists.tapr.org](mailto:bounce-aprssig-2015@lists.tapr.org)  
[mailto:[bounce-aprssig-2015@lists.tapr.org](mailto:bounce-aprssig-2015@lists.tapr.org)] On Behalf Of Bob Bruninga  
Sent: Sunday, December 10, 2000 8:14 AM  
To: TAPR APRS Special Interest Group  
Cc: TAPR APRS Special Interest Group  
Subject: [aprssig] Re: Unwanted TROPIC WX Bulletins

Would someone confirm that WinAPRS now supports message groups? For years it did not, and since most people's view of APRS is only through WinAPRS, that might explain why the feature is not used nor widely understood?

Bob

---

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---

## 251. [aprssig] Interfacing Wx Sta. To APRS

From: [froggy@tri-lakesonline.net](mailto:froggy@tri-lakesonline.net)  
Date: Sun, 10 Dec 2000 13:37:04 -0000  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-123904-2000.12.10-07.49.39--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-123904-2000.12.10-07.49.39--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Has anyone interfaced a Windows 98 based APRS system to a Peet Bros. 100? I'm wondering as I've had no experience with this and I'm just curious as to whether there's something available "off the shelf" for such a project.

I'm interested in the Peet Bros. 100 since it seems to be fairly inexpensive and seems to have a serial interface. Has this been done...easily?

Mark Stappenbeck, N0PWZ

---

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---

## 252. [aprssig] Re: Unwanted TROPIC WX Bulletins

From: "Russ Chadwick" <crb5@qwest.net>  
Date: Sun, 10 Dec 2000 07:22:20 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123907-2000.12.10-08.33.54--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

----- Original Message -----

From: Bob Bruninga <bruninga@usna.edu>  
Subject: [aprssig] Re: Unwanted TROPIC WX Bulletins

> Here is another idea. Let the verbose multi-line TROPIC data be  
> transmitted as a MESSAGE GROUP so that everyone gets it on their message  
> or traffic pages, then at the end, send a ONE-LINE BULLETIN that announces  
> that the TROPIC message is available under a MSG GRP. For example...  
>  
>  
> SENDER>APRS::TROPIC :Here is line one of a the tropic broadcast  
> SENDER>APRS::TROPIC :Here is the second line of the tropic msg  
> SENDER>APRS::TROPIC :Here is the Nth line of the tropic message  
> SENDER>APRS::BLN1 :WX Bulletin XXX is now posted in TROPIC MSG GRP  
>  
> Would someone confirm that WinAPRS now supports message groups? For years  
> it did not, and since most people's view of APRS is only through WinAPRS,  
> that might explain why the feature is not used nor widely understood?

About a year ago, we tried to set up a way to use message groups here in Colorado, but it didn't work out because we found that while APRSdos (which I use) has this feature, WinAPRS (which Lumpy used) does not. I've heard no indication that this feature has been added to WinAPRS since then.

Russ  
kb0tvj

---

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---

## 253. [aprssig] Kenwood rigs and bugs

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Sun, 10 Dec 2000 07:32:07 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: aprssig@lists.tapr.org  
Message-ID: <LYR842-123911-2000.12.10-08.58.12--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 08:14 AM 12/10/00 -0500, Bob Bruninga blasted the following out into the ether:  
>on sat, 9 dec 2000, earl needham wrote about the tropic bulletins:  
>  
> > those kenwood rigs that are so susceptible to bugs have to shoulder  
> > part of the blame.  
>  
>its not a bug.

Perhaps not, but what happens when one of those new Kenwood rigs receives a packet that's as long as the AX.25 spec allows? Doesn't it hang up, and isn't that a bug? Did they ever get that fixed?

I swear, I think Kenwood really fouled up those new rigs...

Thanks for the note,  
Earl

Earl Needham, KD5XB      mailto:KD5XB@AMSAT.ORG  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

---

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---

## 254. [aprssig] Re: Unwanted TROPIC WX Bulletins

From: "Ciemon G0TRT" <g0trtlists@btinternet.com>  
Date: Sun, 10 Dec 2000 14:47:47 -0000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123912-2000.12.10-08.59.34--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Sounds about right,

I'm amazed that so many people register the software the amount of support that you DON'T get

73.....Ciemon Dunville G0TRT Sysop MB7UPG IGate  
ICQ - 6263612  
homepage - www.aprsuk.net  
Where is Ciemon's home station?  
<http://www.findu.com/cgi-bin/find.cgi?mb7upg>

> About a year ago, we tried to set up a way to use message groups here in  
> Colorado, but it didn't work out because we found that while  
> APRSdos (which  
> I use) has this feature, WinAPRS (which Lumpy used) does not.  
> I've heard no  
> indication that this feature has been added to WinAPRS since then.  
>  
> Russ  
> kb0tvj  
>  
>  
>  
> ---  
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> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org  
>  
>

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Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

---

## 255. [aprssig] Re: Unwanted TROPIC WX Bulletins

From: Paul Drothler <wo4u@juno.com>  
Date: Sun, 10 Dec 2000 09:05:15 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123916-2000.12.10-09.18.19--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Sun, 10 Dec 2000 08:14:14 -0500 (EST) Bob Bruninga <bruninga@usna.edu> writes:

<Giant Snip>

> Would someone confirm that WinAPRS now supports message groups? For  
> years  
> it did not, and since most people's view of APRS is only through  
> WinAPRS,  
> that might explain why the feature is not used nor widely  
> understood?  
>  
> Bob

Bob,



I'm sure you must have a computer at work or at home that is capable of running WinAPRS. Since the recent survey indicates that the majority of APRS users are running WinAPRS (probably because of the superior and more useful mapping) it seems as though you might want to take a look at it for yourself. If I agree to PAY for your Registration would you consider running a copy of the program on one of your computers so you could know first hand what it does and does not do??

Paul - W04U

---

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---

## 256. [aprssig] Re: Unwanted TROPIC WX Bulletins

From: "ke4slc" <[ke4slc@midusa.net](mailto:ke4slc@midusa.net)>  
Date: Sun, 10 Dec 2000 09:10:27 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-123917-2000.12.10-09.23.09--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-123917-2000.12.10-09.23.09--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

I have to strongly disagree with this statement. I've always gotten good and fast results from the APRS authors when I've contacted them....  
73 de Dan

----- Original Message -----

From: Ciemon G0TRT <[g0trtlists@btinternet.com](mailto:g0trtlists@btinternet.com)>  
To: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Sent: Sunday, December 10, 2000 8:47 AM  
Subject: [aprssig] Re: Unwanted TROPIC WX Bulletins

> Sounds about right,  
>  
> I'm amazed that so many people register the software the amount of support  
> that you DON'T get

---

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---

## 257. [aprssig] Message Groups (was Unwanted ...)

From: Steve Slay <[snslay@swbell.net](mailto:snslay@swbell.net)>  
Date: Sun, 10 Dec 2000 09:45:56 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-123918-2000.12.10-09.59.45--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-123918-2000.12.10-09.59.45--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

----- Original Message -----

From: "Paul Drothler" <[wo4u@juno.com](mailto:wo4u@juno.com)>  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Sent: Sunday, December 10, 2000 8:05 AM  
Subject: [aprssig] Re: Unwanted TROPIC WX Bulletins

snip>  
> Since the recent survey indicates that the majority of APRS users are running  
> WinAPRS (probably because of the superior and more useful mapping)  
> it seems as though you might want to take a look at it for yourself.  
snnip>

> Paul - W04U

In my opinion, APRS+SA has the superior maps.

It also supports Message Groups.

I agree with Bob, Message groups seems to be the way to solve this problem.

Steve Slay  
KC5MVY

---

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## 258. [aprssig] Re: Unwanted TROPIC WX Bulletins

From: "The Germino's" <mgermino@inreach.com>  
Date: Sun, 10 Dec 2000 08:58:52 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123937-2000.12.10-11.12.52--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bob wrote:

> Would someone confirm that WinAPRS now supports message groups?

Mike says: I am still learning about WinAPRS and APRS in general. I don't see anything about "message groups". In the "Message list" window you can chose either "ALL" "BLN" "ANN" "MINE" "NWS" "IGATED" "THREAD"

I am not an expert with the software, but I have seen Bob ask this questions in various forms, so I thought I would reply what little I know. If someone has a better answer, please, jump in.

I have not run any other software, but have been thinking about looking at the differences. This discussion may just spur me on. Like I said I am still learning and I enjoy this group.

Bob, Thank you for all your time and effort. You really started something.

AD6AA

---

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---

## 259. [aprssig] Re: Unwanted TROPIC WX Bulletins

From: Guy Story <kc5goi@tapr.org>  
Date: Sun, 10 Dec 2000 11:13:54 -0600 (CST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123939-2000.12.10-11.25.42--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I have to agree with Dan. I have had no troubles with ay of the authors when it comes to getting help. This includes Dale. While I am a registered user of only WinAPRS, everyone that I have asked for help has been there and in a timely manner. There is one thing that everyone needs to remember. All of the authors have day jobs. The day jobs are more important than the side jobs of writting software, creating new toys, etc. Without the day jobs, the side jobs stop almost immediately. Complaints about how often an update for software do not help. Dale is an unfortunate sign of proof that unconstructive critisim is very destructive.

Outcries of support after a mind has been made up is too little too late. I am very disappointed that Dale has decided to shutdown the WX data feeds, but I understand his point of view. I have to go back and manually generate all the local wx watches and warnings for the Fort Worth are on APRS. I am one of 2 opeartors that have the "authorization" to do this and both of us at times may not have time to do the routine to post those wx messages due to work or being a Skywarn operator at the NWS. The point of my post is this, unless you can offer CONSTRUCIVE CRITISIM, not a complaint made of of anger or without thinking it through, please keep it to yourself. All the authors and a good handfull of use elmer hear these complaints more often than some may realize. I have spoken with the Sprouls, Dale and Bob about bit and piece stuff for APRS and will continue to do so. Those discussions have always been and always will be in a constructive non-combative manner.

On Sun, 10 Dec 2000, ke4slc wrote:

> I have to strongly disagree with this statement. I've always gotten good and  
> fast results from the APRS authors when I've contacted them....

> 73 de Dan

73,

Guy Story, KC5G0I  
kc5goi@tapr.org  
<http://www.kc5goi.net>

---

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---

## 260. [aprssig] Re: Unwanted TROPIC WX Bulletins

From: David VanHorn <dvanhorn@cedar.net>  
Date: Sun, 10 Dec 2000 12:25:23 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123940-2000.12.10-11.40.13--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 09:10 AM 12/10/00 -0600, ke4slc wrote:

>I have to strongly disagree with this statement. I've always gotten good and  
>fast results from the APRS authors when I've contacted them....  
>73 de Dan

You are hereby elected as official author interface person. :)

See my thread, "still broken after all these years".

I have been contacted by the sprouls. They took a list of my issues, but I  
haven't seen any output. They may be working on it, but the contacts that  
occur are brief, and not very informative.

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

---

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---

## 261. [aprssig] D700 Groups

From: "John L. Place" <jplace@sc.rr.com>  
Date: Sun, 10 Dec 2000 13:49:35 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123947-2000.12.10-13.01.45--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hope I am not opening up a bag of worms or misunderstanding something on  
the groups issue, but on page 22 of the D700 Specialized Instruction  
manual, is the instructions for setting group codes, such as SPCL,  
Tropic, etc.

Maybe this helps or really makes things worse.  
[Attachment: jplace.vcf; text/x-vcard; 148 bytes]

---

## 262. [aprssig] Re: Kenwood rigs and bugs

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Sun, 10 Dec 2000 15:19:16 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: aprssig@lists.tapr.org  
Message-ID: <LYR842-123961-2000.12.10-15.36.19--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 08:32 AM 12/10/00, Earl Needham wrote:

> Perhaps not, but what happens when one of those new Kenwood rigs  
> receives a packet that's as long as the AX.25 spec allows? Doesn't it  
> hang up, and isn't that a bug? Did they ever get that fixed?

Although a few people have observed lockups in their TH-D7's, most of those  
appear to be power related. I've never had my TH-D7 lockup while  
receiving 1200 baud APRS packets, but then I live in Sioux Falls... It's

never happened to me on my travels though, either.

I think what you are referring to (at least on the North American variants) for the TH-D7 and TM-D700 is that the maximum ABAUD (or TNC to Computer Connection speed) is 9600 BPS. The problem being that when running 9600 BPS packet, the internal throughput lags, and the buffer in the transceiver's TNC is woefully small. After a few seconds of connecting to a 9600 BPS host (or receiving large amounts of 9600 BPS UI packets) the D7 or D700 stops responding. It is not locked up at this point, just dazed and confused. If you let it sit, it will sort itself out, but you will never see the text that never made it to the internal buffer. It's most annoying. Obviously the solution is to have an abaud setting of 19.2 Kbps and perhaps a larger buffer. I'm not sure, but I think the problem can not be addressed by a simple firmware upgrade, it appears to be a hardware limitation.

Rumor is, that the \$2400 (MSRP) TS-2000 has the EXACT same shortcoming.

73,

Mark  
KC7BXS

---

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---

## 263. [aprssig] Re: Kenwood rigs and bugs

From: "Henk de Groot" <henk.de.groot@hetnet.nl>  
Date: Sun, 10 Dec 2000 23:30:43 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123976-2000.12.10-16.55.39--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Van: "Mark Fellhauer" <sparkfel@primenet.com>  
> At 08:32 AM 12/10/00, Earl Needham wrote:  
> > Perhaps not, but what happens when one of those new Kenwood rigs  
> > receives a packet that's as long as the AX.25 spec allows? Doesn't it  
> > hang up, and isn't that a bug? Did they ever get that fixed?  
>  
> Although a few people have observed lockups in their TH-D7's, most of  
those > appear to be power related. I've never had my TH-D7 lockup while  
> receiving 1200 baud APRS packets, but then I live in Sioux Falls... It's  
> never happened to me on my travels though, either.

I think Earl is referring to the fact that if you receive one single large UI frame with a TH-D7, the unit stops decoding APRS packets and transmitting its beacon.

The limit is exactly at 195 bytes when the packet is formatted as TNC output string.

```
SOURCE>ID,PATH,PATH*,PATH:Hey look at me, this is my long ID<CR>  
<----- Max 195 characters ----->
```

When a UI packet exceeds this length and is successfully received by a TH-D7x the TH-D7 ARPS handling will stop (not "can", but "will"; it is a hard failure). It does not crash the TH-D7 but you just see that it does not display APRS messages anymore, despite good reception, and it doesn't transmit any beacon anymore, even if you manually press the BCON button. This lasts until you press the TNC button a couple of times to cycle the TNC off and on again. This is valid for the stand-alone APRS mode. If used in TNC mode the unit keeps working correctly.

This bug is reproducible on all TH-D7 variants I know and has been reproduced in Japan as well. I don't have a confirmation if the TH-D7A(G) still has this bug but since nobody told me it did not have it I assume this one has it too. I have confirmation for the TH-D7E (both V1.0 and V2.0) and the TH-D7A. I don't own a TM-D700 so I don't know if that unit behaves the same.

It seems that the situation in the US is better than here in Europe. People here tend to specify way too much status text in the APRS packets, overrunning what the TH-D7 can take. We took countermeasures in our digipeaters now to keep the TH-D7 APRS function working. When used for DX messages monitoring DX Cluster traffic you can forget it since also other traffic using big packets is taking place on the same QRG. The same happens

if you mix APRS with other traffic (I know it is a bad idea, but it is done anyway and from the AX.25 protocol point of view there is nothing wrong with this).

You may not have experienced this problem but that doesn't mean the bug is not there. It just means that you live in an area where nobody sends big UI packets on the APRS QRG or (worse!) that you did have the problem but did not notice that your TH-D7 stopped decoding packets and sending beacons. When I first had the unit I wondered why I missed large chunks of a track. I didn't know why until I found out that the unit just stopped sending beacons. The track restarted at the spot where I played around with it, cycling the TNC to quickly listen to the nearby voice repeater...

I hope this clarified the problem. I read about the power problems too but I don't know if the two are related in some way. This one is very reproduceable and is a hard-error. I guarantee that I can demonstrate this problem on your unit also within 10 seconds.

Kind regards,

Henk.

---

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## 264. [aprssig] Re: APRS Satellite Details

From: Bill Vodall <wa7nwp@yahoo.com>  
Date: Sun, 10 Dec 2000 14:46:58 -0800 (PST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-123977-2000.12.10-16.59.32--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

--- Bob Bruninga <bruninga@usna.edu> wrote:  
> Now that the launch of the Naval Academy student built APRS Satellite

Fantastic project Bob...

> FUNDAMENTAL ASSUMPTIONS DRIVING THE DESIGN:  
>  
> 1) Optimum ALOHA TDMA channel efficiency is about 18% due to  
> collisions

Unless you're using digipeaters... <grin> Then it gets much worse.

> 3) 1200 baud AFSK has a 7 dB advantage (measured) over 9600 baud FSK

This one I'll challenge. While I don't have much experience and can't do the derivations, I've always heard that if everything else is equal, a 9600 baud FSK system has a slight advantage over 1200 baud AFSK. Maybe it's just FSK over AFSK.

Our standard packet AFSK is technically a lousy performer. Almost as bad as CW (another <grin>).

Were you using the D7/D700 for your testing or "real" optimized 9600 baud rigs. I have an opportunity to test a D700 on the 9k6 network here one of the days when I get a chance. I'm looking forward to that as I've yet to hear of somebody pushing it on a network to see how it really works.

I agree with your findings - I'm just nit picking the global statement.

> 4) T/R delays render 9600 only twice as fast as 1200 for short  
> bursts

True only if you use radios requiring long txdelays. Good 9k6 radios have very short txdelay requirements that are proportional, or better, then the 8x gain going from 1200 to 9600.

Again, unfortunately for Amateur Packet radio, in general you are correct!

73,  
Bill - WA7NWP

---

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---

## 265. [aprssig] Re: APRS Satellite Details

From: Jeff King <[jeff@aerodata.net](mailto:jeff@aerodata.net)>  
Date: Sun, 10 Dec 2000 18:38:35 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-123978-2000.12.10-17.45.56--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bill Vodall wrote:

> > 3) 1200 baud AFSK has a 7 dB advantage (measured) over 9600 baud FSK  
>  
> This one I'll challenge. While I don't have much experience and can't  
> do the derivations, I've always heard that if everything else  
> is equal, a 9600 baud FSK system has a slight advantage over  
> 1200 baud AFSK. Maybe it's just FSK over AFSK.

Well, your both right. Bob was referring to a certain bug ridden, aprs spec/ax.25 non-compliant walkie talkie. But in a well designed system, a 9600bps system will have a slight advantage over a 1200 baud afsk system. This was first brought to light (well at least to hams) at K9NG's talk in Dayton in 1986 when he first did his ham 9600bps modem. Likely, they are trying to use a voice grade IF filter which exhibits poor group delay response.

> > 4) T/R delays render 9600 only twice as fast as 1200 for short  
> > bursts  
>  
> True only if you use radios requiring long txdelays. Good 9k6 radios  
> have very short txdelay requirements that are proportional, or better,  
> then the 8x gain going from 1200 to 9600.

Good radios and Aprs packet radio are a oxymoron in the United States. All most hams care about is the "bell and whistle" factor and if the gear can talk. This is not just idle speculation, the marketing figures support this statement. Once upon a time, Kantronics came out with a plug and play 19.2kbaud radio.... easier to set up then a AFSK radio. TXD times where less then 2ms. This of course was the D4-10. Yet you no longer see it because the sales were very poor.

So, with regards to the junk that is actively marketed to hams now, Bob is correct.

However, if performance matters to you (and likely then you are not a true ham), you can purchase the TEKK radios (which aren't the best but have good turnaround) or there are a number of European radios you can get.

It really depends on your goal, whether you want good performance or want to impress your friends at the next Star Trek convention...

Now if you want my opinion..... ;-)

73

Jeff

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---

## 266. [aprssig] Re: Unwanted TROPIC WX Bulletins

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Sun, 10 Dec 2000 19:37:55 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-123985-2000.12.10-18.52.01--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Sun, 10 Dec 2000, Chris Schwab wrote about message gropus.

> How would I test it here locally?

Find someone to play with. Add TEST to your MESSAGE GROUPS.  
Get someone to send a message to "TEST". It should be accepted by your station as if it was a message addressed specifically to you and your callsign. It should pop up on your screen immediately.  
AND it should show whenever you list MY MESSAGES...

bob  
> > Chris  
> N4BSA  
>  
> -----Original Message-----  
> From: bounce-aprssid-2015@lists.tapr.org  
> [mailto:bounce-aprssid-2015@lists.tapr.org] On Behalf Of Bob Bruninga  
> Sent: Sunday, December 10, 2000 8:14 AM  
> To: TAPR APRS Special Interest Group  
> Cc: TAPR APRS Special Interest Group  
> Subject: [aprssid] Re: Unwanted TROPIC WX Bulletins  
>  
>  
>  
> Would someone confirm that WinAPRS now supports message groups? For years  
> it did not, and since most people's view of APRS is only through WinAPRS,  
> that might explain why the feature is not used nor widely understood?  
>  
> Bob  
>  
>  
>  
> ---  
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>  
>

APRSDos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org  
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060  
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>  
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>  
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

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## 267. [aprssid] Re: Wireless Mobile Workstation URL

From: K3for@aol.com  
Date: Sun, 10 Dec 2000 20:52:59 EST  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Cc: aprssid@lists.tapr.org  
Message-ID: <LYR842-123995-2000.12.10-20.04.59--lyris.aprssid@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I went ahead and purchased one of the Fujitsu T5000 terminals from  
<http://www.resunltd4u.com/>

We will know by Tues/Wed if APRSDos will run on them - don't get hopes up yet.

Their web site pricing is wrong. Nuts&Volts is correct: \$39 for 1, \$129 for 3.

MS DOS 5 is booted from ROM, leaves you at an A: prompt which is a PCMCIA RAM card, NOT a floppy drive. The screen is half-VGA 640x240, APRS will run on CGA 320x200. There's a built-in ARDIS RF modem and internal modem, but your guess as to where to get the software drivers from if you wanted to use them. These are similar to the Itronix terminals used by Sears a few years back.

No battery pack, have to build your own, but they will run off of stepped-down 12-14VDC 125ma steady-state to a standard barrel plug (will measure and see which.)

Don't know exactly the issue with the keyboard, but shouldn't be too hard to

overcome.

Skip/K3F0R

---

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## 268. [aprssig] Re: Kenwood rigs and bugs

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Sun, 10 Dec 2000 21:21:21 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124004-2000.12.10-21.35.47--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 04:30 PM 12/10/00, Henk de Groot wrote:

>I think Earl is referring to the fact that if you receive one single large  
>UI frame with a TH-D7, the unit stops decoding APRS packets and transmitting  
>its beacon.

OK, I was able to duplicate the bug with my TH-D7A(G) variant. It does  
indeed stop receiving packets after sending a UI frame exceeding 195 bytes.

>...and it doesn't  
>transmit any beacon anymore, even if you manually press the BCON button.  
>This lasts until you press the TNC button a couple of times to cycle the TNC  
>off and on again. This is valid for the stand-alone APRS mode. If used in  
>TNC mode the unit keeps working correctly.

My HT will still transmit a beacon manually if you press the beacon button  
after sending it a large UI frame, but the reception of all incoming  
packets does cease. Cycling the power on the HT restores normal operation.

73,

Mark  
KC7BXS

---

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---

## 269. [aprssig] Unwanted & Unneeded WX

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>  
Date: Sun, 10 Dec 2000 22:42:13 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "Dale Huguley" <kg5qd@earthlink.net>  
Message-ID: <LYR842-124011-2000.12.10-21.56.17--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 11:23 AM 09-12-00 +0000, Dale Huguley wrote:

>...  
> I have a solution to the problem with all the weather stuff "clogging"  
>the system.[...]  
> I am now at the conclusion that aprs and weather related output  
>are not compatible. [...]

I agree. Weather on APRS is fine, and fun to watch, when a weather report  
from a station replaces its normal APRS periodic ID. In other words, no  
net addition to normal APRS traffic and marginally more information than a  
symbol for a QTH.

Bob Bruninga, I think, said the primary purpose of APRS is mobile position  
reporting and one-liner point to point messaging, imbedded into a  
convenient cooperative network. (If he didn't say that, I will.) My  
corollary is that anything in addition to that is noise. Especially if it  
makes clutter on the net: "clogging the system". If there's anything more  
cluttering than frequent position reports of your non-moving QTH, its  
useless weather broadcasting.

Remember, folks, APRS is a hobby and that trying to rely on a voluntary  
hobby system for anything operational like weather is foolish &  
counterproductive. I've made the argument before that incomplete,



unreliable, inaccurate weather information is worse than no info at all, and that anyone who sits glued to his APRS rig to avoid the next tornado is loopy; but of course, no one really does. They use the comprehensive, professional sites on the internet, watch the Weather Channel, or turn on their \$25 NOAA weather radio, all of which are more sensible than watching a tropical bulletin on 144.39 in Seattle.

So, many thanks to Dale for demonstrating a clever weather info handling system. But his conclusion about its compatibility with APRS is right.

So let's enjoy APRS position reporting and use it to try out all those other neat ideas that Dale, Bob, and others have come up with about satelliting, DFing, whatever; but not try to make weather routine or operational. It may be routine but never be operational.

Bob Kirk  
N30ZB

---

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---

## 270. [aprssig] Re: Unwanted TROPIC WX Bulletins

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Sun, 10 Dec 2000 23:09:26 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-124012-2000.12.10-22.21.54--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Sun, 10 Dec 2000, The Germino's wrote:

> Mike says: I am still learning about WinAPRS and APRS in general. I  
> don't see anything about "message groups". .....  
>  
> Bob, Thank you for all your time and effort. You really started something.

Thanks mike. I certinaly did not mean to start anything here.  
APparently everyone thinks I am against TROPIC. Nothing is further from the truth. I just thought I saw an easy fix to a problem reported by another user in his mobile. But if WinAPRS does not support Message Groups, then we cannot use this feature to its fullest.

Ill crawl back under my rock now...

Bob

---

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---

## 271. [aprssig] Re: D700 Groups

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Sun, 10 Dec 2000 23:45:03 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-124013-2000.12.10-22.57.22--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Sun, 10 Dec 2000, John L. Place wrote:

> Hope I am not opening up a bag of worms or misunderstanding something on  
> the groups issue, but on page 22 of the D700 Specialized Instruction  
> manual, is the instructions for setting group codes, such as SPCL,  
> Tropic, etc.  
> Maybe this helps or really makes things worse.

<big grin> I think it might make things worse. The "groups" on page 22 have to do with excluding ALL packets from everyone not in your group. THis is rearely used on amateur Radio APRS.

The MESSAGE GROUPS are defined on page 34. This is a "selection" process and not an "exclusion" process. Thus it wont help the mobile filter out

unwanted Bulletins unless he uses it to filter out ALL bulletins \*except\* for only one GROUP. And general bulletins are not a GROUP that you can filter.

That is why the only easy solution was to consider making the TROPIC bulletins into a MESSAGE group. Then everyone would still get them, but the Kenwoods would not, unless they added that message group to their list.

But even if WinAPRS does not specifically have MESSAGE GROUPS, I don't think it would matter, since WinAPRS captures everything to the same big list anyway. In fact, they could add a button to select just TROPIC if they wanted to? Hummh...

Bob

[Attachment: jplace.vcf; text/x-vcard; 148 bytes]

---

## 272. [aprssig] Re: APRS Satellite Details

From: Bob Bruninga <bruninga@usna.edu>  
Date: Sun, 10 Dec 2000 23:59:08 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124015-2000.12.10-23.12.18--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Sun, 10 Dec 2000, Bill Vodall wrote:

> > 3) 1200 baud AFSK has a 7 dB advantage (measured) over 9600 baud FSK  
>  
> This one I'll challenge... I've always heard that if everything else  
> is equal, a 9600 baud FSK system has a slight advantage over  
> 1200 baud AFSK. Maybe it's just FSK over AFSK.

Yes and no. The disadvantage of AFSK is that it is double modulated. But then 1200 baud is also 8 times slower. SO it should do 9 dB better under matched bandwidth situations. But we don't use 1200 baud FSK in 8 times narrower filters, so in effect, we are getting an FM advantage of using the same 15 KHz bandwidth. Yes, 1200 baud AFSK would be worse than 1200 baud FSK. No question.

But comparing 1200 AFSK and 9600 FSK, instead of seeing the 9 dB expected due to the baud rates, we only see 7 dB. Thus, the penalty for AFSK in this case is only about 2 dB. But still, it is 7 dB better than 9600...

>  
> Were you using the D7/D700 for your testing or "real" optimized  
> 9600 baud rigs. I have an opportunity to test a D700 on the 9k6  
> network here one of the days when I get a chance. I'm looking forward  
> to that as I've yet to hear of somebody pushing it on a network to  
> see how it really works.

Please do. Yes, we used both the D7 and D700 because we figured that is what most of our satellite users would use for handheld packet satellite comms.

THanks!  
Bob

---

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---

## 273. [aprssig] Re: Unwanted & Unneeded WX

From: David VanHorn <dvanhorn@cedar.net>  
Date: Mon, 11 Dec 2000 00:12:37 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "Dale Huguley" <kg5qd@earthlink.net>  
Message-ID: <LYR842-124019-2000.12.10-23.27.26--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>So let's enjoy APRS position reporting and use it to try out all those  
>other neat ideas that Dale, Bob, and others have come up with about  
>satelliting, DFing, whatever; but not try to make weather routine or  
>operational. It may be routine but never be operational.

Given that you get to redefine "operational" to suit your whim, you're right.

OTOH, I have the opinion of a PHD meteorologist that this system is workable, provided we fix a few rather silly bugs.

This sort of "Give up and go back to contesting" attitude really bugs me.

Already, APRS is useful in tracking our spotters, and coordinating inter-county, since I don't have to listen to their net for an hour to figure out where everyone is, I just look at the map.

With a few bugs fixed, we have a powerful tool for weather related observing, and emergency management in general.

You're right, we don't get our primary weather info off APRS. Uncalibrated sensors (fixable in 10 minutes on a nice afternoon) and protocol "issues" (Is wind of 0.00 MPH no wind at all, or "I don't have a wind sensor") make that unworkable. Baro reports of 0.00 would seem to indicate an immediate threat to life, or no sensor as well...

We do input weather observations into APRS though, and the NWS locally is very much interested in promoting the system.

I hope to use APRS next season, for plotting temperature observations made by mobiles, which is a critical indicator of thermal boundaries, a key trigger mechanism for tornado generation. Using this boundary trigger mechanism, we predicted tornado formation on a day when NWS had no threat of severe weather in our area. The resulting storm spawned three tornadoes, all of which had spotters in-place from birth to death. We've missed ZERO this year.

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

---

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---

## 274. [aprssig] RE: Unwanted & Unneeded WX

From: "Bryan Jarvis" <[bjarvis@metronewsservice.net](mailto:bjarvis@metronewsservice.net)>  
Date: Sun, 10 Dec 2000 23:23:15 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-124020-2000.12.10-23.39.07-lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-124020-2000.12.10-23.39.07-lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Hi, Bob and group...

(I wanted to snip the quote for brevity, but Bob makes several very good points throughout his email...)

I have to respectfully disagree somewhat with your assessment of just how valuable weather via APRS can be.

I am a reserve firefighter and I have provided my local department with weather from my personal weather station since about '91 in one form or other.

I have to say that wind speed and direction are pretty accurate, as is total rain and rainfall rate. Barometric pressure and humidity are less accurate, but still important in relation to and in combination with other sources.

My station is in the center of our fair city, and, as such, has got to be more accurate than the station at the regional airport (DFW). Also, my data has been more accessible than that coming from the weather channel for instance, because the dispatchers have to wait for the current weather to be updated.

Also, watches and warnings over the weather radio system may be delayed as much as 30 minutes or more which can

be a big difference in a violent and fast-moving storm.

My first system of providing the weather was a VeriFone credit-card processing terminal placed in the dispatch office and programmed to call my PC at my house. The dispatcher could just push a button and get a receipt. Now, I use the data via APRS and I can receive this at the EOC. My local weather station can help act as an additional 'spotter' in some respects.

Anyway, my philosophy is to use any and all available sources and balance them as to location, age of the data and probable accuracy. APRS weather data IF LOCAL and Pertinent can help an EOC during periods of local storm activity. I feel that the local WX activity is a bonus, and not a clutter to the APRS net.

Thanks for listening!

Bryan

```
=====
Bryan Jarvis          KD5LBK          vader1@flash.net
Metro News Service, Inc.      bjarvis@metro-news.com
    phone: (972) 768-2002
    fax: (972) 436-7553
alpha pager: (972) 209-1505 -or- text email to:
                        1614047@gte.pagegate.net
```

I have created a monster and given it life,  
a life which shall destroy me yet!

Want to find my truck?  
<http://www.findu.com/cgi-bin/find.cgi?kd5lbk-1>

-----Original Message-----

From: bounce-aprssi-19907@lists.tapr.org  
[mailto:bounce-aprssi-19907@lists.tapr.org] On Behalf Of Robert Kirk  
Sent: Monday, December 11, 2000 00:42  
To: TAPR APRS Special Interest Group  
Cc: Dale Huguley  
Subject: [aprssi] Unwanted & Unneeded WX

At 11:23 AM 09-12-00 +0000, Dale Huguley wrote:

```
>...
> I have a solution to the problem with all the weather stuff "clogging"
>the system.[...]
> I am now at the conclusion that aprs and weather related output
>are not compatible. [...]
```

I agree. Weather on APRS is fine, and fun to watch, when a weather report from a station replaces its normal APRS periodic ID. In other words, no net addition to normal APRS traffic and marginally more information than a symbol for a QTH.

Bob Bruninga, I think, said the primary purpose of APRS is mobile position reporting and one-liner point to point messaging, imbedded into a convenient cooperative network. (If he didn't say that, I will.) My corollary is that anything in addition to that is noise. Especially if it makes clutter on the net: "clogging the system". If there's anything more cluttering than frequent position reports of your non-moving QTH, its useless weather broadcasting.

Remember, folks, APRS is a hobby and that trying to rely on a voluntary hobby system for anything operational like weather is foolish & counterproductive. I've made the argument before that incomplete, unreliable, inaccurate weather information is worse than no info at all, and that anyone who sits glued to his APRS rig to avoid the next tornado is loopy; but of course, no one really does. They use the comprehensive, professional sites on the internet, watch the Weather Channel, or turn on their \$25 NOAA weather radio, all of which are more sensible than watching a tropical bulletin on 144.39 in Seattle.

So, many thanks to Dale for demonstrating a clever weather info handling system. But his conclusion about its compatibility with APRS is right.

So let's enjoy APRS position reporting and use it to try out all those other neat ideas that Dale, Bob, and others have come up with about satelliting, Dfing, whatever; but not try to make weather routine or operational. It may be routine but never be operational.

Bob Kirk  
N3OZB

---

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[Attachment: Bryan Jarvis (E-mail).vcf; text/x-vcard; 761 bytes]

---

## 275. [aprssig] amateur?

From: Kevin Deckert <kdeckert@wellsgray.net>  
Date: Sun, 10 Dec 2000 22:16:55 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124034-2000.12.11-00.30.16--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

always remember, the ark was built by amateurs and the titanic by professionals!  
[Attachment: kdeckert.vcf; text/x-vcard; 174 bytes]

---

## 276. [aprssig] Unwanted Messages...

From: B Keyport <bkeyport@qwest.net>  
Date: Sun, 10 Dec 2000 22:29:31 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124037-2000.12.11-00.43.32--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Everyone wants to get rid of the unwanted messages....  
Everyone wants to reduce traffic...

Here's a thought.

Get rid of the messaging system in it's entirety, except for the following:

- 1) Welcome to <X> messages - One station in a good location to transmit welcome messages to new stations in the area. This message would include information on a voice repeater that would provide details such as mapping assistance, where things are, and general chitchat. "Welcome to Seattle/Tacoma, Washington - for assistance with anything, please call "APRSHELP" on the N7UIE repeaters on 145.250- no PL/442.490+ 103.5PL. Same repeaters can be used for general ragchew. Thanks!" (if I stepped on anyone's freq., I'm sorry - random choices - message to be shortened as needed for the small textspace systems)
- 2) WX Reports - Limit to local radio area and internet backbone only. DO NOT RETRANSMIT off backbones, unless emergency conditions exist.
- 3) (inter)National Traffic System - ARRL Specific format - transmitters would only be activated when the call/zipcode/other matching information applies to your area - will not transmit otherwise.
- 4) internet only related system messages - Will not, and should not transmit on air.
- 5) Emergency services support - APRS is great for emergency services, as long as the messages can get through - E.S. messages would be the only general message allowed.

90% of what I see as excess traffic is chit-chat and other junk. it may have been fine for when the system was empty - but there's places like the Pacific NorthWest that stations are stacking on top of each other so much that what would be normally a one hop transaction is taking more. (I can talk to Seattle simplex voice, why can't APRS get there in the same hop, with the same radio at the same power??)

---

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## 277. [aprssig] RE: Unwanted & Unneeded WX

From: David VanHorn <dvanhorn@cedar.net>  
Date: Mon, 11 Dec 2000 01:30:11 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124039-2000.12.11-00.44.25--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>My first system of providing the weather was a VeriFone  
>credit-card processing terminal placed in the dispatch  
>office and programmed to call my PC at my house.

ROTFLMAO!!!

I was wondering when someone would get the hackability of those things.  
I helped design them.  
I still consult on TCL programming. :) B1.1J'BCAKE'

--  
Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

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## 278. [aprssig] RE: Unwanted & Unneeded WX

From: David VanHorn <dvanhorn@cedar.net>  
Date: Mon, 11 Dec 2000 01:32:42 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124040-2000.12.11-00.47.36--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

There was a version with a four wire interface, bell 202 modem...  
We didn't make a lot of them though.

--  
Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

---  
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---

## 279. [aprssig] APRS/CE Build 943

From: "Rob Wittner" <rmw@rwa-inc.com>  
Date: Mon, 11 Dec 2000 01:42:46 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124045-2000.12.11-00.54.20--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

-----  
And you thought I had disappeared...

I pretty much had disappeared... I am currently working on two full-time software development contracts, so my apologies if I'm not replying to your e-mails in a timely manner.

Also, my sincere apologies for getting behind in this latest build of APRS/CE. As always, you, my users, make this all worthwhile and I appreciate your patience and feedback.

Get build 943 at <http://www.tapr.org/~aprsce/> .

This release adds a weather status page on the station info screen, wind speed and direction display, mobile course and speed display, \_sound!\_ for new messages, and a little indicator at the top to show new incoming messages. I'm sure there's a bunch of other little things as well, you'll see them as you start to use the program again.

APRS/CE is getting very close to becoming version 1.0. However, because of

my schedule, I've set the expiration for this version to \_next\_ \_December\_.  
That's December \_2001\_!

A few of you had asked why I put expirations on my builds. My logic was that it was beta code and probably shouldn't be hanging around on people's machines for long periods of time - that way I only have one version to support. When APRS/CE goes to 1.0 and beyond, the expiration "feature" will be removed, replaced with a feature that requires registration before it saves any of your settings. The registration fee will be nominal, similar to pocketAPRS.

Thanks again for your continued interest.

Please, everyone, give me some feedback on the install and the program itself.

73

-Rob  
KZ5RW

---

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---

## 280. [aprssig] Re: APRS/CE Build 943

From: David VanHorn <dvanhorn@cedar.net>  
Date: Mon, 11 Dec 2000 02:04:52 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124047-2000.12.11-01.19.53--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>A few of you had asked why I put expirations on my builds. My logic was  
>that it was beta code and probably shouldn't be hanging around on people's  
>machines for long periods of time - that way I only have one version to  
>support. When APRS/CE goes to 1.0 and beyond, the expiration "feature" will  
>be removed, replaced with a feature that requires registration before it  
>saves any of your settings. The registration fee will be nominal, similar  
>to pocketAPRS.

It's not the registration fees I mind so much, but the platforms are  
killing me! :)

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

---

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---

## 281. [aprssig] Re: Unwanted & Unneeded WX

From: "Dick Stanich" <dstanic@c2i2.com>  
Date: Mon, 11 Dec 2000 8:10:21  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124057-2000.12.11-08.22.50--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>Bob Bruninga, I think, said the primary purpose of APRS is mobile  
position  
reporting and one-liner point to point messaging, imbedded into a  
convenient cooperative network. (If he didn't say that, I will.) My  
corollary is that anything in addition to that is noise. Especially if it  
makes clutter on the net: "clogging the system". If there's anything more  
cluttering than frequent position reports of your non-moving QTH, its  
useless weather broadcasting.

Yes, indeed! For years we were told that Morse code was the primary  
purpose for amateur radio. Did Bob ever think that APRS would more than a  
DOS position reporting platform? I hope so. It's called technology.

I don't think WX reports on APRS is foolish. What's foolish is trying to  
limit the use of APRS with the idea that all this will un-clog our  
bandwidths. What we have, works! Yes, we need to move ahead with better  
technology to handle our needs, and stop trying to put limits on those are

trying to develop new applications that will blend into a system. It can only get better. Take a serious look at how far it has gone, less the nay-sayers.

This is Amateur Radio, and it's fun!

Dick, KB7ZVA  
Southwest Arizona APRS Group

---

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## 282. [aprssig] APRS & Weather, as to clogged bandwidth...

From: Qrpvhf@aol.com  
Date: Mon, 11 Dec 2000 10:41:24 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124062-2000.12.11-09.54.00--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Well I am no packet guru and locally we don't have a lot of stations on the screen/air.

However what would it hurt to try doing APRS at a faster speed? 2400baud we could still use the same radios we use now. 9600baud would be a little harder but still and option.

I personally hate to see the loss of the weather data from the internet as it was a great help in demo'ing APRS to groups.

Just some thoughts from a basic APRS user...

Jacob Tennant,K8JWT

---

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---

## 283. [aprssig] Re: Kenwood rigs and bugs

From: Alex <kg4ecv@earthlink.net>  
Date: Mon, 11 Dec 2000 10:43:07 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124063-2000.12.11-09.57.35--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hello Henk,

Henk de Groot wrote:

<snip>

> We took countermeasures in our  
> digipeaters now to keep the TH-D7 APRS function working.

<soapbox>

And this is the sad part. You don't take a dime to write your software, but some company who's making money of it is creating a problem, and you have to program around it. I know there probably will never be one, but it would be great to have some type of type acceptance test to which each application and device could be submitted to see if it adheres to the standards set for the infrastructure.  
</soapbox>

> Kind regards,  
>  
> Henk.

---

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---

## 284. [aprssig] RE: Unwanted & Unneeded WX

From: "Scott-KC5JGV" <kc5jgv@arrrl.net>  
Date: Thu, 3 Jan 1980 09:55:16 -0800



To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "Dale Huguley" <kg5qd@earthlink.net>  
Message-ID: <LYR842-124070-2000.12.11-10.11.57--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Good Morning Robert and the SIG,

Your comment, Robert, on APRS WX is all wrong. Just because you don't want to see TROPIC in Seattle, has no bearing on how well APRS performs in the WX role. If you don't like TROPIC then get with the IGATE owner and let him know.

As far as cluttering up the system, the opposite is true! For us to operate a SKYWARN net out of the state's only NWS office, we have to link repeaters, one at a time, in order to reach different areas of the state. This process is of linking, calling for info, taking down the link and linking to another area of the state is time consuming and leaves a lot to be desired. There are numerous times when the repeater is not linked or is not working well and the reports are missed. Not to mention that the voice transmission are not always accurate. "Its raining like cats and dogs" is hardly as accurate as a simple packet of info from an automated APRS WX station!

We live in Tornado alley and it is a rural area. This means that the weather can turn bad in a hurry, and there are few cable TV systems to watch the Weather Channel on. The Weather Channel rarely is fast enough with the information anyway, so watching for warnings is not the way to go. And those of us that have satellite know that heavy rain and storms can knock the signal down! NOAA is fine, but is late! It lags on average around here by 10-15 minutes after the warning is issued.

We have found that there are only two systems that provide fast, accurate, warning information from the NWS. They are ham radio broadcasts when the linked repeater is working and EMWIN. IWIN and internet options are unreliable in bad weather as the power often goes out or flutters not to mention that I'm not going to be connected to the phone lines during a thunderstorm!

But I will be using my 12v computer, 12v radio and 12v tnc on APRS sending and receiving WX information! I will also be using it as a weather spotter while mobile. And I will be giving reports that the NWS will receive with in seconds from my transmission, that will be as accurate as I can make them. Too often the information is lost or copied wrong when reporting in voice!

Granted there are a few minor bugs in the APRS WX system, and I hope that in the end, after all the IMHO's and other comments are made, that we can come to a workable solution. I think there is a need for some programming and method changes in the way we send and receive the WX information. But to deny, or abandon WX operations via APRS is ludicrous! The APRS program has a great potential of becoming a top notch WX reporting program in addition to all the we use it for now. It only makes sense that we apply APRS to tracking weather as we have tracking anything else!

I hope that we will move forward and continue to make adjustments and improvements to the APRS system. Weather is an important part of that and we need to continue using APRS in SKYWARN and general weather information. And yes, there have been times when all that was left running is the APRS computer in the corner of the ham shack! Oh how I wished we'd had a good APRS SKYWARN program going then!

OK, I'll quit with that.....

73  
Scott KC5JGV

-----Original Message-----

From: bounce-aprssig-14464@lists.tapr.org  
[mailto:bounce-aprssig-14464@lists.tapr.org] On Behalf Of Robert Kirk  
Sent: Sunday, December 10, 2000 22:42 PM  
To: TAPR APRS Special Interest Group  
Cc: Dale Huguley  
Subject: [aprssig] Unwanted & Unneeded WX

At 11:23 AM 09-12-00 +0000, Dale Huguley wrote:

>...  
> I have a solution to the problem with all the weather stuff "clogging"  
>the system.[...]  
> I am now at the conclusion that aprs and weather related output

>are not compatible. [...]

I agree. Weather on APRS is fine, and fun to watch, when a weather report from a station replaces its normal APRS periodic ID. In other words, no net addition to normal APRS traffic and marginally more information than a symbol for a QTH.

Bob Bruninga, I think, said the primary purpose of APRS is mobile position reporting and one-liner point to point messaging, imbedded into a convenient cooperative network. (If he didn't say that, I will.) My corollary is that anything in addition to that is noise. Especially if it makes clutter on the net: "clogging the system". If there's anything more cluttering than frequent position reports of your non-moving QTH, its useless weather broadcasting.

Remember, folks, APRS is a hobby and that trying to rely on a voluntary hobby system for anything operational like weather is foolish & counterproductive. I've made the argument before that incomplete, unreliable, inaccurate weather information is worse than no info at all, and that anyone who sits glued to his APRS rig to avoid the next tornado is loopy; but of course, no one really does. They use the comprehensive, professional sites on the internet, watch the Weather Channel, or turn on their \$25 NOAA weather radio, all of which are more sensible than watching a tropical bulletin on 144.39 in Seattle.

So, many thanks to Dale for demonstrating a clever weather info handling system. But his conclusion about its compatibility with APRS is right.

So let's enjoy APRS position reporting and use it to try out all those other neat ideas that Dale, Bob, and others have come up with about satelliting, DFing, whatever; but not try to make weather routine or operational. It may be routine but never be operational.

Bob Kirk  
N30ZB

---

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## 285. [aprssig] RE: Unwanted & Unneeded WX

From: Mike Heskett <mheskett@mindspring.com>  
Date: Mon, 11 Dec 2000 10:07:22 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124071-2000.12.11-10.20.33--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 11:23 PM 12/10/2000 , you wrote:

>Also, watches and warnings over the weather radio system  
>may be delayed as much as 30 minutes or more which can  
>be a big difference in a violent and fast-moving storm.  
>

Bryan, I agree with everything you said, with one exception. I am not an employee of the National Weather Service, and I can't speak for how it works in all offices, except for one - the one where warnings come for your area.

I know that you probably used this for emphasis, but the time is more like a minute or less from the time that the meteorologist hits enter from his "Warn Gen" screen until the "friendly" voice of Igor is spitting the warning over NOAA Weather Radio.

NOAA Weather Radio is only one of the tools that a person needs in his/her severe weather preparedness tool bag.

Mike Heskett  
WB5QLD  
Volunteer Coordinator  
Amateur Radio Skywarn Team -  
National Weather Service Forecast Office  
Fort Worth, Texas

---

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## 286. [aprssig] RE: Unwanted & Unneeded WX

From: "Stephen M. King" <[frastephen@home.com](mailto:frastephen@home.com)>  
Date: Mon, 11 Dec 2000 11:37:10 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-124073-2000.12.11-10.49.34--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

FWIW...

I think it would be helpful to make a distinction between information REPORTING and information DISSEMINATION.

RE: Weather data

I would think APRS does a great job of REPORTING weather observations on a local network. A number of folks have indicated that they have used this to a very helpful end. I am not involved in Skywarn or related activities but even I find it interesting and useful to look at local weather station observations as reported by APRS in my local area network. I think I would include the county severe weather alerts in this category of REPORTING.

On the other hand, APRS does not seem to be the best way to DISSEMINATE what we might call "broadcast" information over large areas. As a number of folk have indicated, if I am concerned about the possibility of tropical weather in my area I doubt if I will turn to APRS as my first (or second, or third) source of information. In an emergency it is good to know that it can work as a backup system if the primary distribution system is disabled but it seems to be reinventing the wheel under normal circumstances. Multiple sources for the same information can only lead to confusion and chaos.

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## 287. [aprssig] Can someone get me the link?

From: Peter Anderson <[panderson@CenterPartners.com](mailto:panderson@CenterPartners.com)>  
Date: Mon, 11 Dec 2000 09:55:56 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-124075-2000.12.11-11.08.15--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I need the link for a site that was blue mountain or the like that was making palm and gps cables, could someone send it to me off the list?

Thanks

Peter

---

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## 288. [aprssig] Bulletin Background...

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Mon, 11 Dec 2000 13:10:34 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-124084-2000.12.11-12.24.42--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Maybe some of the misunderstanding of my comments about bulletins comes from the different ways that various programs display bulletins. So here is something I wrote that summarizes what BULLETINS were originally designed to do...

APRS MESSAGES were one-to-one. So BULLETINS were designed to let people send short announcements to everyone via a virtual "BULLETIN BOARD IN THE SKY". In APRSdos, this BULLETIN DISPLAY was limited intentionally to a single display screen... an "executive summary" if you will... The philosophy was that if there are too many bulletins on the air, then no one is going to take the time to read them.

As such then, I only allowed for BLN#s from 1 to 9 and users were encouraged to use only a few lines usually. Also, if they reused the same BLN#'s then their new lines would simply replace their old ones. Later I increased the size of the BULLETIN page to 43 lines and removed the limits on the BLN#.

Think of this BULLETIN board like a WHITE board in an EOC to which anyone could post an ENTRY but that everyone could see. This is why it was important for new BLN#s to be sorted onto the board in order and to also overwrite and replace the same BLN# from the same person. If just one line of his post changed, then he only had to resend the changed line. Updating the number of casualties or beds at an EOC for example. Or updating the starting time of an event... etc... This is very efficient use of bandwidth.

Also by letting people reuse BLN#'s then, when a person sent a new BULLETIN it would replace his old one on the "BULLETIN BOARD". This is why ALL BULLETINS were supposed to be "sorted" onto the BOARD both by call and by BLN#. Thus it is always current and old stuff is always replaced.

Thus with each new bulletin, APRSdos defaulted back to BLN1. This would naturally tend to help users overwrite old bulletins and the BIG BULLETIN board in the sky would always remain current with only the latest info visible to all.

But then came WinAPRS with unlimited memory and unlimited display space. WinAPRS saw no need to limit bulletins to one single display and so it merged its bulletins in with the messages. As a result it had no need to sort them, nor replace them, nor allow for on-air editing... Just let the user see them all and let the users use what they want..

Conversely, my thoughts were that the BULLETINS are supposed to be \*current and realtime\*. It's fine to log them all to a sequential file but there should only be a "limited" display space to focus the user only on what is current so as not to overload the user in crisis.. Management studies conclude that information that covers more than one page will not usually be read (much)...

So APRSdos users are looking at a sorted one page summary of only the latest bulletin lines that are currently on the air. And any user can replace or erase any of his current lines with just a one-line transmission.

Hope this helps others see why we all see different things when we talk about Bulletins.

de WB4APR, Bob

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## 289. [aprssi] New copy APRSdata.exe

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Mon, 11 Dec 2000 15:24:40 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssi@lists.tapr.org](mailto:aprssi@lists.tapr.org)>  
Message-ID: <[LYR842-124088-2000.12.11-14.37.32--lyris.aprssi#tapr.org@lists.tapr.org](mailto:LYR842-124088-2000.12.11-14.37.32--lyris.aprssi#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

I just posted a new version of APRSdata that transmits tiny-web-pages of satellite data to D7's and D700's. Only minor changes:

- 1) Added OPAL which is being turned on for APRS digipeating on 437.100
- 2) Added MYSAT which is a good 9600 baud downlink for testing your stuff

3) Dropped the APRSdata beacon rate on the "Check your DX list" packet

Its at ftp://tapr.org/aprssidg/dosstuff/APRSDos

For info, see <http://web.usna.navy.mil/~bruninga/satinfo.html>

de WB4APR, Bob

---

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---

## 290. [aprssidg] Re: APRS Satellite Details

From: Jeff King <[jeff@aerodata.net](mailto:jeff@aerodata.net)>

Date: Mon, 11 Dec 2000 16:23:33 -0500

To: "TAPR APRS Special Interest Group" <[aprssidg@lists.tapr.org](mailto:aprssidg@lists.tapr.org)>

Cc: TAPR APRS Special Interest Group <[aprssidg@lists.tapr.org](mailto:aprssidg@lists.tapr.org)>, Bill Vodall <[wa7nwp@yahoo.com](mailto:wa7nwp@yahoo.com)>

Message-ID: <LYR842-124092-2000.12.11-15.30.45--lyris.aprssidg@tapr.org@lists.tapr.org>

Rendered body type: text/plain

Bob:

It sounds like you have a improperly setup or designed 9600bps radio....  
a properly adjusted 9600bps FSK signal is actually narrower then a 1200baud  
AFSK signal. From Mike Curtis 9600bps notebook @  
<ftp://ftp.tapr.org/general/9600baud/96man2x0.txt>

(regarding 9600bps FSK modulation)

:It's much more efficient than 1200 baud, and therefore a  
:much better use of our precious radio spectrum. Being FSK, it actually  
:requires slightly LESS bandwidth than voice, or typical 1200 baud AFSK  
:packet, in spite of its greater baud rate. We have actually measured 9600  
:baud running at the recommended 3 KHz deviation as ~12 KHz wide, with  
:negligible energy outside this passband. Most 1200 baud signals are about  
:13 KHz wide, with a few of the "plug and play" crowd as wide as 30 KHz!

Now as to your 9db "difference", how exactly are you getting this? You  
understand that besides the problems with AFSK itself, the Bell 202 modem  
requires typically 20db+ s/n on baseband for decent BER's. My experience has  
been the exactly opposite of yours... I typically can decode 9.6kbaud at the  
same level as 1200 baud AFSK or sometimes below. This is consistent with K9NG's  
findings as well as industry text.

Like I said earlier, I suspect your basing your findings on the  
Kenwood radios.... and I suspect they also are using voice grade IF  
filters, not data optimized filters. You do need to be concerned about  
group delay in any decent digital radio design.

Here is a book I recommend to anyone regarding radio data communications.  
"Wireless Digital Communications: Design and Theory" by Tom McDermott.  
TAPR is (or was) selling it.

73

Jeff

Bob Bruninga wrote:

>

> But comparing 1200 AFSK and 9600 FSK, insated of seeing the 9 dB expected  
> due to the baud rates, we only see 7 dB. Thus, the penalty for AFSK in  
> this case is only about 2 dB. But still, it is 7 dB better than 9600...

---

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## 291. [aprssidg] Re: APRS Satellite Details

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>

Date: Mon, 11 Dec 2000 17:27:03 -0500 (EST)

To: "TAPR APRS Special Interest Group" <[aprssidg@lists.tapr.org](mailto:aprssidg@lists.tapr.org)>

Cc: TAPR APRS Special Interest Group <[aprssidg@lists.tapr.org](mailto:aprssidg@lists.tapr.org)>,

Bill Vodall <wa7nwp@yahoo.com>  
Message-ID: <LYR842-124100-2000.12.11-16.41.26--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

On Mon, 11 Dec 2000, Jeff King wrote:

> It sounds like you have a improperly setup or designed 9600bps radio....  
> a properly adjusted 9600bps FSK signal is actually narrower then a 1200baud  
> AFSK signal. From Mike Curtis 9600bps notebook @  
> ftp://ftp.tapr.org/general/9600baud/96man2x0.txt

Its apples and oranges. He says one is 12 and the other is 13 khz. AND  
what is the radio?  
Trying to make judgements on amateur equipment to that degree of accuracy  
is like trying to count votes in Florida...

---

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---

## 292. [aprssid] Re: APRS Satellite Details

From: Jeff King <jeff@aerodata.net>  
Date: Mon, 11 Dec 2000 17:57:10 -0500  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssid@lists.tapr.org>,  
Bill Vodall <wa7nwp@yahoo.com>  
Message-ID: <LYR842-124101-2000.12.11-17.04.45--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

Bob Bruninga wrote:

>  
> On Mon, 11 Dec 2000, Jeff King wrote:  
>  
> > It sounds like you have a improperly setup or designed 9600bps radio....  
> > a properly adjusted 9600bps FSK signal is actually narrower then a 1200baud  
> > AFSK signal. From Mike Curtis 9600bps notebook @  
> > ftp://ftp.tapr.org/general/9600baud/96man2x0.txt  
>  
> Its apples and oranges.

No, its not.

> He says one is 12 and the other is 13 khz. AND  
> what is the radio?

He is the author of the 9600baud modification handbook. One could assume his  
base is larger then one radio. I gave you the reference so you should be able  
to check his sources.

> Trying to make judgements on amateur equipment to that degree of accuracy  
> is like trying to count votes in FLorida...

Again, he is the author of the 9600bps notebook. This is an exact science and  
has no relation to voting in Florida (???).

What kind of radio are you using and can you specify your testing conditions?

-Jeff

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Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

---

## 293. [aprssid] Re: New copy APRSdata.exe

From: Bill Vodall <wa7nwp@yahoo.com>  
Date: Mon, 11 Dec 2000 15:53:40 -0800 (PST)  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-124107-2000.12.11-18.06.37--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

I'm working on an upgrade of my old Dosap pgm (for APRSPLUS) and  
porting it to Linux. One goal is to mirror the APRSdata  
functionality. Since you can't mirror what you don't know, I set

up APRSdata yesterday.

It's REALLY COOL! All of APRSdos plus a very handy satellite status bar on the bottom of the screen.

If you're in to satellites - check out APRSdata...

Bill, WA7NWP

PS. It works better to follow the instructions. Install Aprsdos first. <grin>

> I just posted a new vesion of APRSdata that transmits tiny-web-pages

> Its at ftp://tapr.org/aprssidg/dosstuff/APRSdos

>

> For info, see <http://web.usna.navy.mil/~bruninga/satinfo.html>

>

> de WB4APR, Bob

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Do You Yahoo!?

Yahoo! Shopping - Thousands of Stores. Millions of Products.  
<http://shopping.yahoo.com/>

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## 294. [aprssidg] Re: Can someone get me the link?

From: "Travis J. Maclay" <[travis@btea.org](mailto:travis@btea.org)>  
Date: Mon, 11 Dec 2000 19:53:18 -0500  
To: "TAPR APRS Special Interest Group" <[aprssidg@lists.tapr.org](mailto:aprssidg@lists.tapr.org)>  
Cc: "TAPR SIG" <[aprssidg@lists.tapr.org](mailto:aprssidg@lists.tapr.org)>  
Message-ID: <[LYR842-124108-2000.12.11-19.05.39--lyris.aprssidg#tapr.org@lists.tapr.org](mailto:LYR842-124108-2000.12.11-19.05.39--lyris.aprssidg#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

I think you might be referring to [www.mouser.com](http://www.mouser.com). If not, sorry, that's all I can think of that might be close to what you referred to. Hope this helps.

73s  
Travis

----- Original Message -----

From: "Peter Anderson" [panderson@CenterPartners.com](mailto:panderson@CenterPartners.com)

> I need the link for a site that was blue mountain or the like that was  
> making palm and gps cables, could someone send it to me off the list?

>

> Thanks

>

> Peter

---

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Questions regarding the SIG go to the SIG administrator: [wallou@tapr.org](mailto:wallou@tapr.org)

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## 295. [aprssidg] Re: Kenwood rigs and bugs

From: Mark Felhauer <[sparkfel@primenet.com](mailto:sparkfel@primenet.com)>  
Date: Mon, 11 Dec 2000 20:09:18 -0600  
To: "TAPR APRS Special Interest Group" <[aprssidg@lists.tapr.org](mailto:aprssidg@lists.tapr.org)>  
Cc: [aprssidg@lists.tapr.org](mailto:aprssidg@lists.tapr.org)  
Message-ID: <[LYR842-124119-2000.12.11-20.23.30--lyris.aprssidg#tapr.org@lists.tapr.org](mailto:LYR842-124119-2000.12.11-20.23.30--lyris.aprssidg#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

> No, Hen got it right -- if the Kenwood rig receives a packet longer  
> than 195 characters, it locks up tight as a drum.

>

> Sorry fort he late response -- my ISP's mail server lost the hard  
> drive yesterday and is just now fixed.

Perhaps you missed my follow up. I actually tested my TH-D7(G) and it does stop responding to packets after receiving a packet 195 bytes or longer. But it doesn't "lock-up" - it just stops decoding packets. Contrary to Henk's findings, my HT continues to beacon (at least manually) properly. All other functions seem to work properly also.

This is annoying. But I find the normal 9600 operations limitation to be far worse. As I stated before, rumor is that the TS-2000 has the same shortcomings. I hope Kenwood addresses this before the new transceiver is released.

73,

Mark  
KC7BXS

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## 296. [aprssig] Re: APRS Satellite Details

From: Doug Ferrell <[kd4moj@kd4moj.org](mailto:kd4moj@kd4moj.org)>  
Date: Mon, 11 Dec 2000 21:36:53 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>, Bill Vodall <[wa7nwp@yahoo.com](mailto:wa7nwp@yahoo.com)>  
Message-ID: <LYR842-124122-2000.12.11-20.52.32--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 05:27 PM 12/11/2000 -0500, Bob Bruninga wrote:  
>Trying to make judgements on amateur equipment to that degree of accuracy  
>is like trying to count votes in FLorida...

Hey I take offense to that! [GRIN] At least folks know where I live now!

...DOUG  
kd4moj

Tallahassee Florida: Home of the Virtual President  
Where am I????? ----->>> <http://map.findu.com/kd4moj>  
<http://www.tallahassee-scanner.com> Scanning Tallahassee Florida  
+-----+  
| Doug Ferrell (850) 575-7119 |  
| [kd4moj@kd4moj.org](mailto:kd4moj@kd4moj.org), <http://www.kd4moj.org> Fax (850) 575-6577 |  
| Amateur Radio & Television (ATV), APRS APRS 144.390 Mhz |  
| 3027.27N / 08420.80W Tallahassee Florida 131.8 CTCSS 444.400 Mhz |  
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## 297. [aprssig] Counties

From: Robbie Robertson <[mwrobertson@mediaone.net](mailto:mwrobertson@mediaone.net)>  
Date: Mon, 11 Dec 2000 20:52:13 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-124131-2000.12.11-21.05.04--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi all,

Is there any other place or better yet, where are those  
10,000 counties with MWS name like IL\_Z030. I can not get  
onto aprs.rutgers

Thanks

--

- Robbie Robertson -  
.....- wa9inf .....-



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Questions regarding the SIG go to the SIG administrator: [wallou@tapr.org](mailto:wallou@tapr.org)

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## 298. [aprssig] Re: Can someone get me the link?

From: Earl Needham <[KD5XB@AMSAT.ORG](mailto:KD5XB@AMSAT.ORG)>  
Date: Mon, 11 Dec 2000 18:14:45 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-124133-2000.12.11-21.13.47--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-124133-2000.12.11-21.13.47--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

At 09:55 AM 12/11/00 -0700, Peter Anderson blasted the following out into the ether:

>I need the link for a site that was blue mountain or the like that was  
>making palm and gps cables, could someone send it to me off the list?  
>  
>Thanks  
>  
>Peter

Sorry I wasn't faster -- my ISP's email server lost the hard drive yesterday and they just got it fixed today.

Try <http://www.blue-hills-innovations.com>

7 3  
Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

---

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## 299. [aprssig] Re: Unwanted & Unneeded WX

From: Mark Fellhauer <[sparkfel@primenet.com](mailto:sparkfel@primenet.com)>  
Date: Mon, 11 Dec 2000 21:56:40 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-124141-2000.12.11-22.09.05--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-124141-2000.12.11-22.09.05--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

At 02:10 AM 12/11/00, Dick Stanich wrote:

>I don't think WX reports on APRS is foolish. What's foolish is trying to  
>limit the use of APRS with the idea that all this will un-clog our  
>bandwidths.

But when lengthy weather reports for Florida are being broadcast in New Jersey in both English and Spanish, it is a little too much. Perhaps I should take it upon myself to RF gate the scores of Girl's High-School Basketball games in South Dakota to the entire country in several different languages on a 15 minute basis? :)

What I've seen on this SIG is that the people who question this need are called whiners and several people have laid blame (or responsibility) not on the people originating the packets, but the people receiving the packets or the people (inadvertantly or not) re-transmitting them. Hmmm....

The other problem I've found is that last July (7/11/2000) tornadic activity snapped the Sioux Falls APRS Digi Tower like a toothpick. Several hams (and commercial concerns) in the area lost towers in this storm, most much beefier than mine. The SXFL digi tower had sustained itself with severe ice loading in sustained 70 MPH winds in the past. I really do not know what took it out (as I was hiding in the basement). I lost a tower, but the storms that blew through the Dakotas, Iowa, and Minnesota that day took lives.

So relying on APRS for severe weather spotting may not always be the best idea. :)

And please remember - storm spotting can get you killed.

SoDaks worst:

<http://www.spc.noaa.gov/misc/spencer/>

Sad to say, but many people who rebuilt in Spencer did so w/o making provision in their new homes for a basement or storm shelter. People NEVER learn.

73,

Mark  
KC7BXS

Speaking of unwanted weather - I think we got to a whopping high of minus 3 degrees (fahrenheit) today.

---

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---

### 300. [aprssig] Re: APRS Satellite Details

From: Bob Bruninga <bruninga@usna.edu>  
Date: Mon, 11 Dec 2000 23:37:56 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>,  
Bill Vodall <wa7nwp@yahoo.com>  
Message-ID: <LYR842-124143-2000.12.11-22.51.26--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Mon, 11 Dec 2000, Jeff King wrote about comparing 9600 baud FSK and 1200 baud AFSK:

> > Its apples and oranges.  
>  
> No, its not.

Yes it is. The bandwidth depends on the deviation. So comparing one at 12 khz bandwidth to the other at 13 Khz is meaningless. For a given radio, what matters is its BER at a given signal power Eb/No. And that is what I measured for the D7 and the D700. Here is what I posted back in July:

Today we did the same DATA performance tests on two D700 data radios as we reported last week for the D7. The results were very similar with 1200 baud being about 7 dB better than 9600. Thus, we conclude that for reliable delivery of short text messaging to mobile and handheld satellite users, that a 1200 baud 2m downlink is by far the most effective from a power budget standpoint. Going to 9600 baud requires 5 times more power and only gains about a doubling of throughput due to TXD...

TEST CONDITIONS: Two D700's were separated by about 1/4 mile with 30 to 40 dB of attenuators on both ends connected to mobile whips. Radios were operated at the lowest power setting. Attenuators were adjusted to find the 50% and 100% performance rate at 1200 and 9600 baud on the Smeter. Then we used a HP Sig gen to calibrate these readings to dBm. S meter readings shown are the number of LCD segments lit.

| BAND | FREQ    | DATA RATE | 50%        | 100%       | Comments         |
|------|---------|-----------|------------|------------|------------------|
| ---- | -----   | -----     | -----      | -----      | -----            |
| A    | 145 MHz | 1200 baud | S0 -123dBm | S0 -120dBm |                  |
| B    | 145 MHz | 1200 Baud | S0 -121dBm | S0 -118dBm | About 2 dB worse |
| A    | 145 MHz | 9600 baud | S2 -116dBm | S3 -113dBm | About 7 dB worse |
|      |         |           |            |            |                  |
| B    | 435 MHz | 1200 baud | S0 -122dBm | S0 -119dBm |                  |
| B    | 435 MHz | 9600 baud | S3 -115dBm | S3 -111dBm | About 7 dB worse |

PACSATS: The above tests are between two identical radios. My PACSAT experience has shown that the 9600 baud PACSAT downlinks often decode with even less signal, often at S0! So they do seem to have optimized signals.

de WB4APR, Bob

----- Following is a FORWARDED copy of D7 test from LAST week -----

For evaluating the optimum configuration for Handheld Satellite Messaging, today, we did another practical test we have long wanted to do. W4HFZ and I compared 1200 and 9600 baud performance using the SAME radios under the same channel under controlled conditions. The results 'in this test' do show about a 7 dB difference between 1200 baud AFSK and 9600 baud FSK.

TEST CONDITIONS: Two THD7 HTs were separated by 100 feet of RG58 with 70 dB or more of SMA RF attenuators on both ends and with RF clamp on ferrite chokes at 4 places along the coax. Radios were operated at Extremely Low power setting.

PROCEDURE: Attenuators were adjusted to find the 50% and 100% performance rate at 1200 baud, then we changed to 9600 baud and re-adjusted attenuators to get the same performance. S signals are the number of LCD segments lit.

| BAND | FREQ    | DATA RATE | 50%        | 100%       | Comments         |
|------|---------|-----------|------------|------------|------------------|
| A    | 145 MHz | 1200 baud | S1 -120dBm | S1 -117dBm |                  |
| A    | 145 MHz | 9600 baud | S5 -113dBm | S5 -110dBm | About 7 dB worse |
| B    | 435 MHz | 1200 baud | S0 -119dBm | S0 -116dBm |                  |
| B    | 435 MHz | 9600 baud | S3 -111dBm | S3 -109dBm | About 7 dB worse |

S-METER: Although the above test shows that there is a difference in the S meter on the two bands, the RF signals are about the same. Within each S meter range, there appears to be about 3 dB and that is the difference between solid and marginal decoding.

PACSATS: The above tests are between two identical radios. My PACSAT experience has shown that the 9600 baud PACSAT downlinks often decode with even less signal, often at S0! So they do seem to have optimized signals.

CAVEATS: Even though the radios are identical, it is still an apple and oranges comparison, because, of course, the audio path and filtering is different between the two modems. But if we "assume" that Kenwood did the best they could with each, within their other constraints, then this does give us a data point that tends to confirm the performance difference between 1200 AFSK and 9600 FSK baud.

Given that there is a further 9 dB or so PATH loss difference between VHF and UHF, this gives us a baseline for trying to design the optimum simple 2-way digital messaging satellite links to handhelds. On the downlink, we want to deliver a message to an HT in your pocket. On the uplink, we want to be able to transmit to the bird with the whip held in the clear.

Just thought you might be interested in the results of this test.

de WB4APR, Bob

---

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### 301. [aprssig] Re: APRS Satellite Details

From: Jeff King <jeff@aerodata.net>  
Date: Tue, 12 Dec 2000 00:14:48 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>, Bill Vodall <wa7nwp@yahoo.com>  
Message-ID: <LYR842-124145-2000.12.11-23.22.13--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bob:

I'm not going to argue basic scientific fact with you. I don't question your results with the Kenwood radio, what I questioned was your generalities in applying these findings to 9600bps operations as a whole. This is what is apples and oranges, if fruit must be in your

conversations.

I offered two texts for you to review if you care to learn about higher speed radio communications. The Kenwood radios are less the optimal and appear to have distorted your data with regards to 9.6kbaud operations.

If you care to follow up on my private e-mail and identify the IF filter in the Kenwood, I can look into it and see if we can get things working like they should.

-Jeff

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## 302. [aprssi] RE: Unwanted & Unneeded WX

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>  
Date: Tue, 12 Dec 2000 00:11:38 -0800  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-124146-2000.12.11-23.26.47--lyris.aprssi@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Stephen M. King wrote:

>I think it would be helpful to make a distinction between information  
>REPORTING and information DISSEMINATION.

>

>I would think APRS does a great job of REPORTING weather observations on a  
>local network. [...]

Yes. As I mentioned, observations - "Obs" - are a great way to substitute your dull QTH symbol for something of interest from your Peet or Davis. They are promulgated no more and no less than your usual WIDE, WIDE or whatever. And all the weather fans can watch the fronts go by and the wind change, given the usual caveats that Bryan Jarvis pointed out about observational quality. I like to check N8ADN's ob before I go sailing.

>On the other hand, APRS does not seem to be the best way to DISSEMINATE what  
>we might call "broadcast" information over large areas. [...]

Yes, again. Or for small areas, either. Those things are pure clutter. Imagine the warm, glowy feeling you get by getting a hurricane position report, (Where do you get it from, by the way? The same official, public, widespread network everyone else has already seen, too.) running down to the shack and putting it out as an APRS bulletin to warn your friends. Of course, it sits in your computer, repeating itself on the network for days. And, of course, you don't resend them \*all\* since no one's paying you to do it at 4:00am, so your warnings are incomplete, too. But you did your public service job.

>[...] I doubt if I will turn to APRS as my first (or second, or third)  
>source of information.

No one else does, either.

>... Multiple

>sources for the same information can only lead to confusion and chaos.

That's OK; it's only a hobby... :-)

Bob Kirk  
N30ZB

---

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## 303. [aprssi] Re: APRS Satellite Details

From: Bill Vodall <wa7nwp@yahoo.com>  
Date: Mon, 11 Dec 2000 22:39:10 -0800 (PST)  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-124182-2000.12.12-00.52.34--lyris.aprssi@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

--- Bob Bruninga <bruninga@usna.edu> wrote:

> Today we did the same DATA performance tests on two D700 data radios  
> as we  
> reported last week for the D7. The results were very similar with  
> 1200  
> baud being about 7 dB better than 9600.

What "test" did you use?

For what it's worth, my planned comparison is between a D700 and a working set of Kantronics D4-10 and Data engine TNC. Test will consist of thousands of packets of various sizes to a Linux box running as one of the Wetnet gateways. It's a 9600 baud repeater that's been running for years and years.. The gateway is directly hooked to the repeater so in this case I won't be "repeating".. As long as it's set up, I'll hit one of the other repeater clients just for the heck of it and see how the results vary.

Goals here are a bit different - I'm not trying to get a couple packets to a satellite, I want to be able to download updates of APRSdata or APRSPLUS from [www.tapr.org](http://www.tapr.org) - all the while running as an Igate, on Amateur RF circuits...

Bill

---

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<http://shopping.yahoo.com/>

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### 304. [aprssig] Re: Kenwood rigs and bugs

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Mon, 11 Dec 2000 16:43:57 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: [aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)  
Message-ID: <LYR842-124193-2000.12.12-01.15.05--lyris.aprssig@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 03:19 PM 12/10/00 -0600, Mark Fellhauer blasted the following out into the ether:

>At 08:32 AM 12/10/00, Earl Needham wrote:

>

>> Perhaps not, but what happens when one of those new Kenwood rigs  
>> receives a packet that's as long as the AX.25 spec allows? Doesn't it  
>> hang up, and isn't that a bug? Did they ever get that fixed?

>

>Although a few people have observed lockups in their TH-D7's, most of  
>those appear to be power related. I've never had my TH-D7 lockup while  
>receiving 1200 baud APRS packets, but then I live in Sioux Falls... It's  
>never happened to me on my travels though, either.

>

>I think what you are referring to (at least on the North American  
>variants) for the TH-D7 and TM-D700 is that the maximum ABAUD (or TNC to  
>Computer Connection speed) is 9600 BPS.

No, Hen got it right -- if the Kenwood rig receives a packet longer than 195 characters, it locks up tight as a drum.

Sorry fort he late response -- my ISP's mail server lost the hard drive yesterday and is just now fixed.

7 3

Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)

Pet peeve: breath is a noun, breathe is a verb (When you take a breath,

you breathe...)

---

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### 305. [aprssig] Re: Kenwood rigs and bugs

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Mon, 11 Dec 2000 16:45:51 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124195-2000.12.12-01.15.37--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 10:43 AM 12/11/00 -0500, Alex blasted the following out into the ether:

><snip>  
><soapbox>  
>And this is the sad part. You don't take a dime to write your software,  
>but some company who's making money of it is creating a problem, and you  
>have to program around it. I know there probably will never be one, but  
>it would be great to have some type of type acceptance test to which  
>each application and device could be submitted to see if it adheres to  
>the standards set for the infrastructure.  
></soapbox>

The funny thing is -- if such a system had been in place over the last ten years or so, Kantronics KPC-3's, the most popular TNC out there, would fail every one of these tests for being non-standard. A TNC-2 they're NOT.

7 3  
Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

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### 306. [aprssig] RE: Unwanted & Unneeded WX

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Tue, 12 Dec 2000 01:35:17 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124200-2000.12.12-01.47.52--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Scott, set the clock on you computer to the correct day and date please.... :)

73,

Mark  
KC7BXS

At 11:55 AM 1/3/80, Scott-KC5JGV wrote:

>Good Morning Robert and the SIG,

From: "Scott-KC5JGV" <kc5jgv@ar1.net>  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "Dale Huguley" <kg5qd@earthlink.net>  
Subject: [aprssig] RE: Unwanted & Unneeded WX  
Date: Thu, 3 Jan 1980 09:55:16 -0800

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### 307. [aprssig] RE: Unwanted & Unneeded WX

From: "Chris Schwab" <1schwab1@tampabay.rr.com>  
Date: Tue, 12 Dec 2000 07:40:28 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124205-2000.12.12-06.57.09--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

All,

The beauty of Dale's system was that you won't see the 4 day old incorrectly plotted hurricane report. It was automated, and updated itself every 6 hours. One single point of dissemination to avoid the chaos & confusion of multiple sources.

And also, while APRS wasn't my primary means of getting information, I do a lot of local traveling for work, and enjoyed being able to see the bulletins & plots show up on my D700 without being at home in front of the computer or TV. So, I guess I would have to say that at least one person was using this as a secondary way of keeping updated.

Chris N4BSA

-----Original Message-----

From: bounce-aprssig-2015@lists.tapr.org  
[mailto:bounce-aprssig-2015@lists.tapr.org] On Behalf Of Robert Kirk  
Sent: Tuesday, December 12, 2000 3:12 AM  
To: TAPR APRS Special Interest Group  
Subject: [aprssig] RE: Unwanted & Unneeded WX

Yes, again. Or for small areas, either. Those things are pure clutter. Imagine the warm, glowy feeling you get by getting a hurricane position report, (Where do you get it from, by the way? The same official, public, widespread network everyone else has already seen, too.) running down to the shack and putting it out as an APRS bulletin to warn your friends. Of course, it sits in your computer, repeating itself on the network for days. And, of course, you don't resend them \*all\* since no one's paying you to do it at 4:00am, so your warnings are incomplete, too. But you did your public service job.

>[...] I doubt if I will turn to APRS as my first (or second, or third)  
>source of information.

No one else does, either.

>... Multiple  
>sources for the same information can only lead to confusion and chaos.

That's OK; it's only a hobby... :-)

Bob Kirk  
N30ZB

---

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---

### 308. [aprssig] APRS+SA v1.99YG posted

From: "Brent Hildebrand" <bhildebrand@earthlink.net>  
Date: Tue, 12 Dec 2000 05:50:54 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "Mike Levine/R5/USDAFS" <mlevine@fs.fed.us>  
Message-ID: <LYR842-124212-2000.12.12-08.04.36--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Current Beta version is 1.99YG found in BETA199YG.zip.

2000.12.12  
1.99YG

New: WX Alarms - individual stations can now have alarms set for the various parameters, such as a low temperature, high temperature, high wind speed, etc. To set an alarm right click on a station on the Weather page to bring up the WX Alarm window. Enter the parameters desired. The program tests for either Greater Than or Less Than. So entering a low temperature of 32 for an alarm value, would cause an alarm when the temperature was below 32. You can enter alarms for any station from the Alarm window by entering the callsign of the station desired, entering the parameters, and clicking OK. To delete a station from the alarm list, enter their callsign, and click the Delete menu. The callsign dropdown list on the WX Alarms window, shows a list of all stations for which alarms are currently set. Or from the APRS+SA calculator, enter:  
#disclose WX\_ALARMS

When an alarm is triggered, several things happen: 1) The ALARM.WAV file is played. 2) A message is placed into your message Inbox with the callsign of the station causing the alarm, and what event triggered it. 3) if you have Port 2 open, the RTS line is Set so an external event can be triggered. External alarms are cleared via the menus: Commands+Clear+Clear Alarms.

Alarm data is stored in the DATA\WXALARMS.DAT file.

The WX Alarms window can also be activated from the Commands menu with shortcut keys of Ctrl+Shift+W.

Note: You can enter 32 for a low temperature alarm, and 9999 for a high alarm. This will effectively prevent a high alarm while having a low alarm set.

Brent Hildebrand, KH2Z

APRS+SA  
<http://www.tapr.org/~kh2z/aprsplus>  
<ftp://ftp.tapr.org/aprssid/winstuff/aprsplus>

[]

---

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Questions regarding the SIG go to the SIG administrator: [wallou@tapr.org](mailto:wallou@tapr.org)

---

### 309. [aprssid] Re: APRS Satellite Details

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Tue, 12 Dec 2000 09:03:38 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>, Bill Vodall <[wa7nwp@yahoo.com](mailto:wa7nwp@yahoo.com)>  
Message-ID: <LYR842-124213-2000.12.12-08.16.38--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Tue, 12 Dec 2000, Jeff King wrote:

> I'm not going to argue basic scientific fact with you. I don't question  
> your results with the Kenwood radio,

Thank you. My tests \*never\* had anything to do with anything except quantifying the performance of the Kenwood radio as a handheld satellite transceiver. See <http://web.usna.navy.mil/~bruninga/pcsat.html>

> what I questioned was your generalities in applying these findings to  
> 9600bps operations as a whole. This is what is apples and oranges, if  
> fruit must be in your conversations.

I never applied them in general. If you would read my postings, there is only one all-in-one satellite capable handheld transceiver in the amateur market. There are several thousand of them in the hands of Amateur Radio Operators and so my objective is to find ways to use these for Satellite communications.

Quantifying the performance of that transceiver is fundamental to designing the links to do this job. As soon as another potential transceiver becomes available, I can't wait to quantify them as well..

> I offered two texts for you to review if you care to learn  
> about higher speed radio communications.

Thank you. But I am well educated in this field.

When you have some performance data on actual hardware alternatives I am sure we would all like to see them.

de WB4APR, Bob



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### 310. [aprssig] RE: Unwanted & Unneeded WX

From: Gerry Creager N5JXS <gerry@cs.tamu.edu>  
Date: Tue, 12 Dec 2000 08:10:11 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124214-2000.12.12-08.22.47--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Robert Kirk wrote:

>

> Yes. As I mentioned, observations - "Obs" - are a great way to substitute  
> your dull QTH symbol for something of interest from your Peet or Davis.  
> They are promulgated no more and no less than your usual WIDE, WIDE or  
> whatever. And all the weather fans can watch the fronts go by and the wind  
> change, given the usual caveats that Bryan Jarvis pointed out about  
> observational quality. I like to check N8ADN's ob before I go sailing.

Some of us have a more direct interest in weather these days. Me? I  
qualify. I've been tracking vehicles, cows, grad students for so long  
that just looking at icons occasionally updating is not all I want to do  
with my hobby these days. And no, I don't want to go back to  
contesting either.

> Yes, again. Or for small areas, either. Those things are pure clutter.  
> Imagine the warm, glowy feeling you get by getting a hurricane position  
> report, (Where do you get it from, by the way? The same official, public,  
> widespread network everyone else has already seen, too.) running down to  
> the shack and putting it out as an APRS bulletin to warn your friends. Of  
> course, it sits in your computer, repeating itself on the network for days.  
> And, of course, you don't resend them \*all\* since no one's paying you to do  
> it at 4:00am, so your warnings are incomplete, too. But you did your  
> public service job.

In fact, the internet feed has proven for me to be a good method to  
disseminate weather alerts. Timely, accurate, adequately detailed in  
both graphical and textual data.

> >[...] I doubt if I will turn to APRS as my first (or second, or third)  
> >source of information.  
>  
> No one else does, either.

In fact, it's virtually as fast and does (for me) a better job of  
placing watches/warnings up on the screen than some of my met tools.

> >... Multiple  
> >sources for the same information can only lead to confusion and chaos.  
>  
> That's OK; it's only a hobby... :-)

Despite commentary to the contrary, APRS is \*NOT\* a stellar messaging  
system. The messages are short, un-acked, and prone to network-based  
delay. Bulletins are tolerant of all this. Use of APRS for discreet  
messaging in real settings is cute, but not an appropriate use of the  
technology, IMHO.

If you don't like getting the weather alerts in your area, band together  
and talk to the local I-Gate operator. If it's really that much a  
problem for you, I'm sorry. But it isn't fair to ME for the whining to  
preclude my use of the data, as well as others' use, just because a  
vocal minority (or so it appears to me from careful review of message  
headers) who have e-mail access can complain to the point of antagonism.

--

Gerry Creager -- gerry@cs.tamu.edu  
Network Engineering |Research focusing on  
Academy for Advanced Telecommunications |Satellite Geodesy and  
and Learning Technologies |Geodetic Control  
Texas A&M University 979.458.4020 (Phone) -- 979.847.8578 (Fax)

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### 311. [aprssig] Re: APRS Satellite Details

From: Bob Bruninga <bruninga@usna.edu>  
Date: Tue, 12 Dec 2000 10:29:52 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124221-2000.12.12-09.43.46--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Mon, 11 Dec 2000, Bill Vodall wrote:

> --- Bob Bruninga <bruninga@usna.edu> wrote:  
>  
> > Today we did the same DATA performance tests on two D700 data radios  
> > as we reported last week for the D7. The results were very similar  
> > with 1200 baud being about 7 dB better than 9600.  
>  
> What "test" did you use?

It was detailed in that post. We transmitted packets ad nauseum adjusting attenuators until we got 90% success rate. Then measured the comparable signal strength with an HP sig gen.

> For what it's worth, my planned comparison is between a D700 and  
> a working set of Kantronics D4-10 and Data engine TNC. Test will  
> consist of thousands of packets of various sizes to a Linux box  
> running as one of the Wetnet gateways....

Problem is that that process measures the configurations relative to one receiver and its own characteristics. Not relative to a receiver optimised for the particular sender...?

The fair comparisons then might be to try all 3 against all 3 and then look at the data. Just a thought..  
bob

---  
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### 312. [aprssig] Thank you all

From: Peter Anderson <panderson@CenterPartners.com>  
Date: Tue, 12 Dec 2000 09:06:58 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124225-2000.12.12-10.18.59--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I would like to thank all who sent me email over the past few days for the link I requested. It is nice to know that the group can be so helpful and responsive. Thanks again for the information.

Peter Anderson  
NOWRE  
Position Work:  
40 31 33N  
105 02 53W  
Position Home:  
40 23 32N  
105 04 07W

---  
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### 313. [aprssig] Satellite Tracking Data Servers

From: Bob Bruninga <bruninga@usna.edu>  
Date: Tue, 12 Dec 2000 14:16:35 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124249-2000.12.12-13.29.03--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I updated the locations of currently active APRSdata Tiny-Web-Page servers that feed live satellite tracking data to their local areas on 144.39.

See: <http://web.usna.navy.mil/~bruninga/satinfo.html>

Anyone within range of these servers will see on their APRS Handheld/ Mobile radio the Range and Azimuth to any satellites in view as well as the up/downlink frequencies and doppler. In addition, a schedule of sats expected in the next 80 minutes is also updated in the DX LIST.

This is an example of using these radios as "Tiny Web Page" viewers for locally generated data bases of information for the traveling ham in the area. Tracking data is "pushed". Other TWP's available on request are the nearest CAMP, CLUB, NET, Radio Shack, ZIP-code (post office), Hospital, DIGIpeater, BBS, Voice repeater, NWS site, NOAA Radio and anything else the local SYSOP wants to put into his system.

de WB4APR@amsat.org, Bob

See my APRS LIVE pages      <http://web.usna.navy.mil/~bruninga/aprs.html>  
See APRS SATELLITES        <http://web.usna.navy.mil/~bruninga/astars.html>  
See MIM/Mic-E/Mic-Lite      <http://www.tapr.org/tapr/html/mic-e.html>

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### 314. [aprssig] Re: APRS Satellite Details

From: Bill Vodall <[wa7nwp@yahoo.com](mailto:wa7nwp@yahoo.com)>  
Date: Tue, 12 Dec 2000 12:34:06 -0800 (PST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-124266-2000.12.12-14.46.25--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

--- Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)> wrote:  
> The results were very similar  
> > with 1200 baud being about 7 dB better than 9600.

> > What "test" did you use?

>

> It was detailed in that post. We transmitted packets ad nauseum  
> adjusting  
> attenuators until we got 90% success rate.

What size packets? 10 byte Mic-E format or 197 byte status messages?  
How many and how fast?

That's the advantage of a "PING" test with TCP. I can say to run 10,000 pings of 197 bytes and when I come back from lunch the computer tells me what my percent success is. Automated and repeatable.

> Problem is that that process measures the configurations relative to  
> one  
> receiver and its own characteristics. Not relative to a receiver  
> optimised for the particular sender...?

True. But this is a system that's been optimized for true, by the book, 9600 amateur packet. It's the standard against which other devices have to be measured.

The D700 has great potential to do more than pass a few packets through the satellites.

With a little help from a laptop, it would make a frequency agile mobile TCP system. Automatically switching hubs (Wetnet has 5) as the location is changed to get the best gateway. The computer would know when the satellites were in range and automatically switch over to monitor for APRS packets and share a "Hello World" or two of its own. Any received packets could be buffered and fed back to the community after the satellite pass. If the D700 will do simultaneous 9600 on UHF and 1200 on VHF, it could do this gating real time...

This all depends on how well the D700 works with "real 9600 packet". It will be a loss to the Amateur community if it's an APRS only radio.

>From your previous note:

> My tests \*never\* had anything to do with anything except

> quantifying the performance of the Kenwood radio as a handheld  
> satellite transeiver. See  
> <http://web.usna.navy.mil/~bruninga/pcsat.html>

This is why I started the whole thing. I didn't see any reference that the APRS satellite discussion was ONLY relating to the Kenwood radios. So when I saw the blanket statement that 1200 baud AFSK had, in general, an RF advantage over 9600 baud FSK, I had to question it. Everything I've always heard said that once the system was in place, the 9600 was better then 1200. Getting the equipment working - that's another story.

Bill - WA7NWP

---

Do You Yahoo!?

Yahoo! Shopping - Thousands of Stores. Millions of Products.  
<http://shopping.yahoo.com/>

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---

### 315. [aprssig] Re: APRS Satellite Details

From: Jeff King <[jeff@aerodata.net](mailto:jeff@aerodata.net)>  
Date: Tue, 12 Dec 2000 16:10:43 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>, Bill Vodall <[wa7nwp@yahoo.com](mailto:wa7nwp@yahoo.com)>  
Message-ID: <LYR842-124269-2000.12.12-15.39.52--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bob Bruninga wrote:

>  
> On Tue, 12 Dec 2000, Jeff King wrote:  
>  
> > I'm not going to argue basic scientific fact with you. I don't question  
> > your results with the Kenwood radio,  
>  
> Thank you. My tests \*never\* had anything to do with anything except  
> quantifying the performance of the Kenwood radio as a handheld satellite  
> transeiver.

Yet I wasn't responding to this. I was responding to this message:

<http://www.tapr.org/tapr/list-archive/aprssig/0012/msg00136.html>

and Bill Vodel's follow-up.

In this message you described design details with regards to a PACSAT. Specifically, you stated:

>FUNDAMENTAL ASUMPTIONS DRIVING THE DESIGN: (PACSAT)  
...  
>3) 1200 baud AFSK has a 7 dB advantage (measured) over 9600 baud FSK  
>4) T/R delays render 9600 only twice as fast as 1200 for short bursts

Of which both generalities are incorrect. You made no mention at all of the Kenwood walkie talkie in the message, and it appears as if you where describing the design of the satellite. I am not a mind reader and more then one person besides me made the same assumptions I did based on your message.

Hey, not a big deal, I eventually figured it out, but you left out a key piece of data, and as such, I can't see how you can now claim what you are in the paragraph I quoted. Sometimes its OK to post a "whoops" on the SIG.

So, I take it your not going to send me the data on the Kenwood IF filter I requested. Anyone else want to pass along the part number of the 450/455khz IF filter to me so we can see if we can get this HT/Radio working like it should?

73

Jeff

---

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### 316. [aprssig] Re: Chris Schwab

From: Eric Cuthbert <cuthbert@sympatico.ca>  
Date: Tue, 12 Dec 2000 16:30:32 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124270-2000.12.12-15.44.20--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Chris, I tried to send to your email but no matter how I reformatted, it wouldn't except it. So, I'll send it here.

You were right, I had a + offset and the d7a wouldn't let me tx in uhf. he display is sooooooooo small that I couldn't see the offset very well. hanks for your help.

--73-- Eric/va3ewc

--

Where's Eric ?? <http://map.findu.com/va3ewc-9>

---

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### 317. [aprssig] Cable Entrance

From: Claude Head <k5dtn@swbell.net>  
Date: Tue, 12 Dec 2000 18:58:17 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124291-2000.12.12-19.13.15--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi, Folks.

I'm in the process of moving the radio shack/computer room, including the APRS setup. (That makes this query on-topic! :-)) In the old setup, antenna cables, weather instrument cables, etc were run though a slightly raised window, which was then stuffed with rolled up newspapers, rags, etc. This was functional, but pretty inelegant and ugly. It also allowed small bugs to get into the house, leaked hot air and cold air during summer and winter. It would have leaked water as well, except that it was under a pretty good over hang and really did not get rained on. The security of the window was also compromised (this was partially fixed by a screw threaded into the window frame which prevented the window from opening past the screw).

So - who has suggestions for a good way to get a bunch of cables into the house such that vermin, water, air etc are kept out, but with a setup that can be easily modified as new equipment is added and old equipment retired?

The new shack will be on the second floor (old one is on the ground floor). This is my house, so I have no contract restrictions about modifying the house, such as cutting holes in the wall! Of course, it does have to be approved by the house mistress, but if the above requirements are met it should not be a problem! :-)

This has to be a situation which most hams have to face at one time or another, but I can find almost nothing written in the ham resources or on the web that has much that is useful about this problem.

I thought I'd come to the experts! What say, guys?

73, Claude Head  
K5DTN

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### 318. [aprssig] GEMINIDS METEOR SHOWER REGISTRATION PAGE NOW OPEN

From: Richard Parry <rparry@qualcomm.com>  
Date: Tue, 12 Dec 2000 17:40:16 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124293-2000.12.12-19.53.52--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

- GEMINIDS METEOR SHOWER REGISTRATION PAGE NOW OPEN -

Web Page registration is now available for those who will be participating in the upcoming December Geminids Meteor Shower event. The purpose of registering is to provide a real-time list of participants. This should expedite communication and increase the chances of success. It should take about 1 minute to complete. Click on the URL below and then click on REGISTER.

<http://w9if.net/cgi-bin/beaconet/main.pl>

I got interested in this facet of amateur radio after reading the article by W2EV in the Nov 99 issue of QST. I quickly realized that my chances of success could be increased if I knew who was participating so I knew where to point the beam. It was out of this need that I developed this registration page. I hope that you find it useful. For those interested in more information, the Nov 1999 QST article by W2EV and the Nov 2000 issue of QST (page 28 and 83) may be useful.

Rich Parry, W9IF  
Rich Parry

---

### 319. [aprssig] Re: APRS Satellite Details

From: Timothy J Salo <tjs@tc.umn.edu>  
Date: Tue, 12 Dec 2000 20:06:51 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124301-2000.12.12-20.18.42--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> Date: Tue, 12 Dec 2000 16:10:43 -0500  
> From: Jeff King <jeff@aerodata.net>  
> Subject: [aprssig] Re: APRS Satellite Details  
> [...]  
> >FUNDAMENTAL ASUMPTIONS DRIVING THE DESIGN: (PACSAT)  
> ...  
> >3) 1200 baud AFSK has a 7 dB advantage (measured) over 9600 baud FSK  
> >4) T/R delays render 9600 only twice as fast as 1200 for short bursts  
>  
> Of which both generalities are incorrect. You made no mention at all of  
> the Kenwood walkie talkie in the message, and it appears as if you  
> where describing the design of the satellite. I am not a mind reader  
> and more then one person besides me made the same assumptions I did  
> based on your message.  
> [...]

A satellite design optimized for specific models of one vendor's  
amateur radio equipment?

-tjs

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---

### 320. [aprssig] TAPR down...NO! It was I

From: "BobD" <BobD@virtualconst.com>  
Date: Tue, 12 Dec 2000 21:27:57 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124302-2000.12.12-20.29.23--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

A few days ago I asked if anyone else was having trouble getting into the TAPR site, and some of you reported back that you could ftp and browse their pages w/o incident.

Today I found out what the problem was. My firewall was blocking their IP number. After removing the TPAR IP address from the list of blocked

addresses I was able to download the latest build of APRS/CE. It's amazing the number of attacks that are put against your machine at times. I am using Network Ice's BlackIce package.

All is well now here....for the time being :-)

thanks to those who responded and offered to download and forward to me, I won't be needing your assistance now.

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### 321. [aprssig] Intellicast radar

From: NØZEU <johne@tds.net>  
Date: Tue, 12 Dec 2000 21:46:12 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124308-2000.12.12-22.00.00--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Looking for information from a Intellicast guru, I up-dated my WinAPRS and found Intellicast is back in (!).  
Looking at the the help section and back in the sig archives  
I have not figured it out.

Trying to get this one to work:

<http://www.intellicast.com/LocalWeather/World/UnitedStates/NorthernPlains/Minnesota/SaintCloud/RadarSummary/>

Thanks, de John NØZEU

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### 322. [aprssig] Re: Cable Entrance

From: WABLMF1@aol.com  
Date: Tue, 12 Dec 2000 23:18:12 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124313-2000.12.12-22.30.03--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In a message dated 12/12/2000 5:07:34 PM Pacific Standard Time, k5dtn@swbell.net writes:

<< So - who has suggestions for a good way to get a bunch of cables into the house such that vermin, water, air etc are kept out, but with a setup that can be easily modified as new equipment is added and old equipment retired? >>

I have always removed one pane of a multipane window and replaced it with an aluminum plate the same size. I then punch a bunch of 5/8" holes in it with a Greenlee punch and insert double-female coax bulkhead connectors ("barrel" plugs) through it. Usually I have a mix of about 1/3rd "N" (for UHF/VHF), 1/3 SO239 (for HF) and 1/3rd BNC (for scanners, AM-FM-TV, etc) . For non-coax cables such as antenna rotators and power/control to my SGC Smartuner, I use 5-or-6 pin Japanese mic jacks which fit in the same 5/8" hole. Finally, the ceramic pillar/feedthru insulator used on antenna tuners for single-wire or balanced-lines will fit through the same 5/8th hole. Then I ground the plate with a 3-inch wide copper strap and neatly ground everything entering the shack at once.

Usually, on the outside, I have LMR-400/RG-213-sized cable terminated in standard-sized plugs. On the inside, I always mount N-to-BNC or UHF-to-BNC adapters on the bulkhead, and use small-diameter flexible BNC-to-BNC jumpers made of the white teflon coax that is slightly smaller than regular RG-58 (but has less loss) to connect to the radios. I can't remember the number on the stuff (We use it at work for 800/900 MHz mobile installations). You don't need to get the non-standard-sized (read expensive) BNC connectors normally used with this stuff. I put about two inches of 1/4-inch shrink sleeving over the coax which builds up the diameter of the cable to be exactly the same as RF-58 so standard plugs will fit. It also serves as a nice strain relief radiusing the cable where it enters the plug.

Stephen H. Smith                      Email:     wa8lmf@aol.com  
Homepage:                      http://members.aol.com/wa8lmf

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### 323. [aprssig] Re: Cable Entrance

From: David VanHorn <dvanhorn@cedar.net>  
Date: Wed, 13 Dec 2000 01:20:39 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124344-2000.12.13-00.35.42--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>So - who has suggestions for a good way to get a bunch of  
>cables into the house such that vermin, water, air etc are kept  
>out, but with a setup that can be easily modified as new equipment  
>is added and old equipment retired?

I use two panels of double-sided PCB material, with long PL-259 barrels.  
They space the panels. For insulation, you can blow the whole thing full of  
foam, or just leave the air, it's really pretty effective.

You can pop more holes in later, and it provides a convenient common ground  
point.

Squishy-foam top and bottom make a good seal. It's been up for two years,  
never leaked yet.

--  
Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

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### 324. [aprssig] Re: Intellicast radar

From: David VanHorn <dvanhorn@cedar.net>  
Date: Wed, 13 Dec 2000 01:22:41 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124345-2000.12.13-00.37.12--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 09:46 PM 12/12/00 -0600, NØZEU wrote:  
>Looking for information from a Intellicast guru, I up-dated my WinAPRS  
>and found Intellicast is back in (!).  
>Looking at the the help section and back in the sig archives  
>I have not figured it out.  
>  
>Trying to get this one to work:  
>  
><http://www.intellicast.com/LocalWeather/World/UnitedStates/NorthernPlains/Minnesota/SaintCloud/RadarSummary/>

Right click on the pix (not the page) and you get the picture's URL

--  
Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

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### 325. [aprssid] Re: Cable Entrance

From: "J. B. Weazle McCreath" <weazle@hurontel.on.ca>  
Date: Wed, 13 Dec 2000 13:40:30 +0000  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-124374-2000.12.13-07.57.18--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

If you want to do it once and do it right, go to Home Depot, or any electrical supply house and get a length of PCV conduit, a weather-head, and a roof boot. The size will depend on how many cables you intend to put in it, with sizes from 1.25" up to 4" or larger.

Simply install it just as you would an electrical service entrance stack with the conduit ending in a type E box in the room where you locate the shack. Leave a length of rope in the conduit after all of the wire runs are in place as you WILL be adding more later and will need it to pull them through.

To keep out the bugs, just wet one of those sponges that are hard as a rock when wet and stuff it in the weather-head. When it dries you will have a nice tight fitting gasket sealing the conduit. Simply wet it again when you need to remove it for more cables.

73, Weazle, VE3EAR/VE3WZL

Listening: 147.030+ and 442.075+  
E-mail: weazle@hurontel.on.ca  
or ve3ear@rac.ca  
Web site: www.hurontel.on.ca/~weazle

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---

### 326. [aprssid] Re: APRS Satellite Details

From: Gerry Creager N5JXS <gerry@cs.tamu.edu>  
Date: Wed, 13 Dec 2000 08:03:57 -0600  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssid@lists.tapr.org>  
Message-ID: <LYR842-124377-2000.12.13-08.17.27--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Timothy J Salo wrote:

>  
> > From: Jeff King <jeff@aerodata.net>  
> > Subject: [aprssid] Re: APRS Satellite Details  
> > >FUNDAMENTAL ASSUMPTIONS DRIVING THE DESIGN: (PACSAT)  
> > ...  
> > >3) 1200 baud AFSK has a 7 dB advantage (measured) over 9600 baud FSK  
> > >4) T/R delays render 9600 only twice as fast as 1200 for short bursts  
> >  
> > Of which both generalities are incorrect. You made no mention at all of  
> > the Kenwood walkie talkie in the message, and it appears as if you  
> > were describing the design of the satellite. I am not a mind reader  
> > and more then one person besides me made the same assumptions I did  
> > based on your message.  
> > [...]  
>  
> A satellite design optimized for specific models of one vendor's  
> amateur radio equipment?

Or even specifically for one mode. Designing in the most utility and reconfigurability is the only design method that makes sense for satellites expected to A) be deployed on-orbit for an extended time and B) have a potential use beyond initial design goals.

If the bird's 800 km away... straight up... it's impossible to make a service call.

I'll go on-record as saying that the determination to optimize a satellite design for the Kenwood D7/D700 is not good practice, regardless of how many of 'em were sold.

--

Gerry Creager -- gerry@cs.tamu.edu  
Network Engineering

|Research focusing on

Academy for Advanced Telecommunications |Satellite Geodesy and  
and Learning Technologies |Geodetic Control  
Texas A&M University 979.458.4020 (Phone) -- 979.847.8578 (Fax)

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### 327. [aprssig] Re: Intellicast radar

From: David Locke <locked@intplsrv.net>  
Date: Wed, 13 Dec 2000 08:16:48 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "'aprssig@lists.tapr.org'" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124378-2000.12.13-08.32.36--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I would love to see an application that will overlay APRs with WX radar product(s). I don't think it's possible since the radar is a web based product and APRS is really not.

-----Original Message-----

From: David VanHorn [SMTP:dvanhorn@cedar.net]  
Sent: Wednesday, December 13, 2000 8:12 AM  
To: TAPR APRS Special Interest Group  
Subject: [aprssig] Re: Intellicast radar

At 09:46 PM 12/12/00 -0600, NOZEU wrote:  
>Looking for information from a Intellicast guru, I up-dated my WinAPRS  
>and found Intellicast is back in (!).  
>Looking at the the help section and back in the sig archives  
>I have not figured it out.  
>  
>Trying to get this one to work:  
>  
><http://www.intellicast.com/LocalWeather/World/UnitedStates/NorthernPlains/Minnesota/SaintCloud/RadarSummary/>

Right click on the pix (not the page) and you get the picture's URL

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

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### 328. [aprssig] Re: APRS Satellite Details

From: Bob Bruninga <bruninga@usna.edu>  
Date: Wed, 13 Dec 2000 10:04:37 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124380-2000.12.13-09.16.34--lyris.aprssig#tapr.org@lists.tapr.org>  
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On Tue, 12 Dec 2000, Timothy J Salo wrote about the Naval Academy's satellite design:

> A satellite design optimized for specific models of one vendor's  
> amateur radio equipment?

Yes and no.

It is an amateur satellite design with the primary mission to do two-way digital messaging to handhelds with stock rubber duck antennas. (Sort of A Ham radio digital Iridium). We will optimize the digital waveform to work the best we can with whatever handheld digital transceivers are available.

Right now there is only one, the D7. As soon as there are more, we will be delighted to optimize for the best fit to all that will be in use.

The mission for digital mobiles is secondary, because mobiles have a 10 dB advantage of Power and a few dB advantage of antennas on a car roof. Thus we have several dB margins here and have secondary receivers for them (Also, U022 and S035 already fulfill this mission).

We took the approach that there are thousands of D7's in the hands of amateurs. These radios have everything needed to do a global handheld amateur satellite communications mission. Why not design a satellite to take advantage of this situation?

My approach to HAM radio is to see what is available and then find a way to use it to the best advantage. And it does NOT HAVE TO BE NEW, nor MANUFACTURED EQUIPMENT. If anyone can identify surplus, scrap, or readily available several thousand handheld transceivers with built in modems, displays and keyboard, that can operate in the amateur bands with packet radio then we will be more than happy to consider optimizing our satellite design around them as well..

Or someone can design one that thousands of hams can build that will fit in their shirt pocket or on their belt. We will include it in our plans.

A satellite communications system is always designed as a system. The user equipment is half of that system and is fundamental in the design of the links. When amateurs operate from .5 watts to 100 Watts with antenna gains between 0 and 16 dBi, the result is a difference in ERP of over 0.5W to 4000 watts. We feel that satellite designs should always define the target USER EQUIPMENT, design to that objective and publish that baseline along with the mission.

Then request that users conform to the parameters of that mission as a condition of operating it. We have and will have plenty of satellites to play with in space. Rather than just throwing it up there and then letting HT's and KW stations duke it out..., we hope to establish a precedent in defining the user ERP and asking users to adhere to that uplink power. If they do, then we think the satellite design will deliver the advertised mission to the users...

de WB4APR, Bob

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## 329. [aprssig] Cable Entrance

From: Frank Ingle <[73545.1210@compuserve.com](mailto:73545.1210@compuserve.com)>  
Date: Wed, 13 Dec 2000 10:06:30 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-124381-2000.12.13-09.20.04--lyris.aprssig@tapr.org@lists.tapr.org](mailto:LYR842-124381-2000.12.13-09.20.04--lyris.aprssig@tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Claude,

Here's what I did with my telephone wiring when I moved in. I suspect you could do the same thing with coax.

My house is wood frame construction with siding on the outside. I drilled an approx 2" diameter hole all the way through the wall (both sides), and slipped a piece of PVC pipe through the hole. I made sure the hole would have a tight fit around the outside of the PVC pipe when installed. The pipe comes out just above the floorboard inside in the telephone equipment room, and extends about 1" into the room. It is situated in a corner and hidden by furniture, so it is not unsightly.

Then I added a 90 degree elbow to the outside end of the pipe. The elbow faces down, and serves to keep water out. Then I pulled all my cables through the pipe, one at a time, terminating them on the inside as I went. I made sure to route the cables through a drip loop outside so water doesn't run down the cables into the pipe.

When I was done the pipe was about 60 percent full. Then I squirted a little self-expanding foam insulation into the elbow (outside) to close up the remaining hole. I put a rag in the pipe on the inside to discourage insects from getting in.

I have had occasion to add wires to the pipe several times over the last 10 years (the pipe is actually full now). Each time I just use a screwdriver to chisel out the foam to open the hole, and remove the rag on the inside.

I would add this advice based on hindsight: Use a pipe which is much larger than you think you'll ever need. This will not only keep you from filling up the pipe, but also allow you to pull cable which already has connectors installed.

Good luck on your project.

Frank Ingle

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---

### 330. [aprssig] Re: APRS Satellite Details

From: "Robert W. Berger" <rbw@vtiscan.com>  
Date: Wed, 13 Dec 2000 10:30:57 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124384-2000.12.13-09.43.26--lyris.aprssig#tapr.org@lists.tapr.org>  
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Maybe not in time for this mission, but what we should be thinking about for future birds is to have all the behavior, including modulation formats, be defined by uploadable software. The wireless phone market is moving in this direction, so there should be some good low power processor/DSP chip sets to choose from.

There would be a lot of design work up front, but the result would be a "standard" design that could be used for many different missions, both voice and digital modes.

- > Or even specifically for one mode. Designing in the most utility and
- > reconfigurability is the only design method that makes sense for
- > satellites expected to A) be deployed on-orbit for an extended time and
- > B) have a potential use beyond initial design goals.

---

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### 331. [aprssig] Re: APRS Satellite Details

From: Bob Bruninga <bruninga@usna.edu>  
Date: Wed, 13 Dec 2000 10:48:39 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124389-2000.12.13-10.00.40--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Wed, 13 Dec 2000, Gerry Creager N5JXS wrote about the Academy's satellite design to support handheld digital 2-way messaging, targeting the D7 and D700 as the expected user equipment:

- > Or even specifically for one mode. Designing in the most utility and
- > reconfigurability is the only design method that makes sense for
- > satellites expected to A) be deployed on-orbit for an extended time and
- > B) have a potential use beyond initial design goals.
- >
- > I'll go on-record as saying that the determination to optimize a
- > satellite design for the D7/D700 is not good practice...

Thanks for your opinion, but neither A nor B is our design goal. Our design life is one year. Our other mission is to test terrestrial solar panels in space. As such our teflon coated panels cost only \$200 instead of \$38,000. Thus making it viable as a student project.

We have also designed in dual redundancy throughout and multiple reconfigurability. We can survive all single failures and many double

failures, and can reconfigure among 4 receivers and 2 transmitters, two solar systems and 2 batteries and 2 controllers.

Besides that, the D7/D700's are compatible with about 200,000 other UI packet users worldwide, so I don't think of it as a limitation... They were designed for UI packeting. They were not designed for the PACSAT-PROTOCOL nor terrestrial 9600 baud full duty-cycle communications, nor for replacing a PC, Radio and external TNC.

Complaining and nausium that one's volkswagon is not a cadillac gains nothing. But finding ways to use the volkswagon is a challenge that many people enjoy...

Just ask a student of the 70's...<grin>

de WB4APR, Bob

---

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### 332. [aprssig] Re: APRS Satellite Details

From: Bob Bruninga <bruninga@usna.edu>  
Date: Wed, 13 Dec 2000 11:05:17 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124392-2000.12.13-10.17.39--lyris.aprssig#tapr.org@lists.tapr.org>  
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> Maybe not in time for this mission, but what we should be thinking about  
> for future birds is to have all the behavior, including modulation formats,  
> be defined by uploadable software...  
>  
> There would be a lot of design work up front, but the result would be  
> a "standard" design that could be used for many different missions, both  
> voice and digital modes.

By the way, anyone can now design, and build their own satellite and get a guaranteed launch for \$30,000 with the Stanford CUBESAT project. You build it to fit a 4" cube and they will fly it. Lots of opportunity here to design whatever you want...

Stanford hopes to use this as a means of quick, easy, guaranteed and continued access to space for student research. First launch is in Nov 2001 and they are now taking reservations.

See: <http://aa.stanford.edu/~ssdl/>

I can't find the link to the CUBESAT page yet, but they are the ones doing it.

de wb4apr, Bob

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### 333. [aprssig] Re: APRS Satellite Details

From: Jeff King <jeff@aerodata.net>  
Date: Wed, 13 Dec 2000 11:52:54 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124400-2000.12.13-11.01.19--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

(On the D7/700 9600bps Kenwood radios)

Bob Bruninga wrote:

>

> Complaining and nausium that one's volkswagon is not a cadillac gains  
> nothing. But finding ways to use the volkswagon is a challenge that many  
> people enjoy...  
>

> Just ask a student of the 70's...<grin>

The Volkswagen used very innovative design and solid engineering to gain its market share. No one could accuse a Volkswagen of putting a side engineering concerns to attract the "plastic veneer bell and whistle" crowd. Your comparison is 180 degrees out of phase..... and the Cadillac needs to have a blown head gasket and a 5 gallon tank.

Why is it that hams can accept and make excuses for apparent shoddy engineering?

Just say NO.

-Jeff

---

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### 334. [aprssig] Re: APRS Satellite Details

From: K3for@aol.com  
Date: Wed, 13 Dec 2000 13:09:02 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124414-2000.12.13-12.21.24--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I think some folks are missing the scope here. APR Bob's low-cost mini-sat is a DoD last-minute launch freebie, to be put together by a handful of midshipmen with no prior experience. Designing it based on existing experiences of Kenwood D7/700 users on A0/U0/Sunsat APRS to prove the basic "pocket EPIRB"/ hiker text msg delivery/receipt, mobile vehicle sat station concepts, oriented toward existing gear, DOES make sense. Hey, it's not excluding non-Kw, btw.  
Skip/K3FOR

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### 335. [aprssig] Re: APRS Satellite Details

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Wed, 13 Dec 2000 12:17:55 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124415-2000.12.13-12.32.13--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 10:52 AM 12/13/00, Jeff King wrote:

>The Volkswagen used very innovative design and solid engineering to gain its  
>market share. No one could accuse a Volkswagen of putting a side engineering  
>concerns to attract the "plastic veneer bell and whistle" crowd. Your  
>comparison is  
>180 degrees out of phase..... and the Cadillac needs to have a blown head  
>gasket and a 5 gallon tank.  
>  
>Why is it that hams can accept and make excuses for apparent shoddy  
>engineering?

Which again shows you that no matter what you do in Ham Radio and especially on this SIG, people will bellyache on anything one does.

Over the years I've attended many AMSAT presentations on the P3D project. At every presentation there would be at least a handful of agitators complaining that AMSAT was was trying to build a Cadillac of a satellite, that they were over-engineering it, it was taking too long, and that the Ariane launch vehicle was gonna blow up on the launch pad...

The point was always made that AMSAT could've built and launched 10 satellites for the same price in a shorter time period. In each case there was always the "threat" of said agitators that they were not going to renew their AMSAT memberships currently and would never contribute again. Not only did I see it in person, but the sentiment was reflected on SIGs and Newsgroups.

I wonder how many of those critics are now excitedly putting together their A0-40 station?

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### 336. [aprssig] Re: Cable Entrance

From: Linda Mullen <ad4bl@mosquitonet.com>  
Date: Wed, 13 Dec 2000 09:53:54 -0900  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124418-2000.12.13-13.07.18--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I also used the pvc system. Here in Alaska it is difficult to just put holes thru the wall because of the severe cold that we get in the winter.

Fortunately for us, we could come in thru the arctic entry floor with a 2in pipe and an elbow to connect to the pipe that is going thru the wall between the arctic entry and the radio room. The pipes are sealed with rtv at the bottom., the floor, and the wall. After running the lines thru the ports, I put some fiberglass insulation in both ends. It is easy to remove and it seals very well. I also have a permanent cable inside the port for pulling cables thru it.

We stayed with as small a pipe as we could manage to allieviate the openings into the house. I did put in 2 ports, one is running vhf lines and tv coax, and the other is running the hf lines and the ground wire. The system works just fine for our climate.

Linda <><

--

Linda AD4BL  
ad4bl@mosquitonet.com  
STM Alaska  
Fairbanks, Alaska  
He came to pay a debt He didn't owe,  
because we owed a debt we couldn't pay!

---

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### 337. [aprssig] Re: APRS Satellite Details

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Wed, 13 Dec 2000 12:58:49 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124420-2000.12.13-13.14.04--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 12:09 PM 12/13/00, K3for@aol.com wrote:

>I think some folks are missing the scope here.

Well put. All I've seen is a lot of undue criticism here. As I have pointed out before people come into APRS with different aspirations and agendas. It seems to me that in most cases the people who complain the loudest are also the people who are content to sit back and enjoy the

fruits of other people's labor.

What I really find amusing is for how many years the AMSAT crowd would roll their eyes when you mentioned APRS. And now we have what appears to be a fifth column who want to keep APRS totally terrestrially based. Most of these people seem to be of the opinion that any dollar spent toward an APRS satellite will take away the same amount of funding from "their" ground-based network - which is a totally false assumption.

73,

Mark  
KC7BXS

---

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### 338. [aprssig] Re: Intellicast radar

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Wed, 13 Dec 2000 14:27:52 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "'aprssig@lists.tapr.org'" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124424-2000.12.13-14.42.41--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 08:16 AM 12/13/00, David Locke wrote:

>I would love to see an application that will overlay APRs with WX radar  
>product(s). I don't think it's possible since the radar is a web based  
>product and APRS is really not.

I'm not sure I understand what you're saying. WinAPRS has this capability already (If I read your post right). Originally designed for Intellicast maps, WinAPRS lets you take just about any reasonably orthogonally correct web based (weather) map and overlay APRS to it. All one needs to do is to have two pixel tiepoints (x/y axis) on the map associated with their approximated Lat and Lon.

I have done this with a local TV Station's (KELO TV) Doppler radar web page. Here is what the associating file looks like:

```
URL      http://www.kelotv.com/Weather/Files_Radar/siouxfalls/max_s.gif
#        This URL is from KELO TV's radar image
#        x          y          lon      lat
Tiepoint      71      60      -100.3419    45.4727
Tiepoint      552     435     -93.3277     41.5069
```

This file is saved to a simple text file, which I titled SXFL.URL and put in the WinAPRS/Images folder. To access it inside WinAPRS, go to Windows/Intellicast Weather Maps and then look for the drop down (SXFL.URL - in this case)  
Note that in this file all fields are separated not by spaces, but by TABS.

Setting up these maps may look difficult, but this is not the case. First you need to determine the "real" URL of the web-based map. Using most browsers, right click on the map image and note the real URL (sometime you have to find a submenu called properties) and then SAVE the image to your hard drive (most of these maps appear to be GIFS). After saving the image, open it up using a reasonably good graphics application. I use ViewPro32 because it is very easy to use, offers a good feature set, and takes very little resources. In most graphics apps their will be a function that displays your pointer's X/Y axis - pixelwise (You need this feature to find your pixel points). In ViewPro all you have to do is left-click on a point (on the image) and it will display the x/y axis in the top status bar as well as ZOOM IN. Zooming-in helps narrow down a geographic point to a single pixel.

WinAPRS asks that you choose a pixel point/geographic location for tiepoints close to the top left edge and the bottom right edge of the map/image. Most of these weather maps have county lines drawn on them, so this is what I use most often. In the above mentioned image for the top left tiepoint I chose intersecting county lines just SE of Mobridge, SD that happens to intersect the Missouri River. This is where the X/Y axis



of pixel 71/60 is indicated by ViewPro. Looking at Precision Maps (In WinAPRS) I locate the same spot and note it's Lat and Lon and convert them to decimal format (this is covered in the WinAPRS docs). Then I do the same for the lower right corner. In this case I picked spot where county lines intersect SE of Des Moines, IA. Again this happens to be in a body of water - Lake Red Rock, I believe. ViewPro puts this intersection at X/Y axis 552/435 Pixel-wise. Using PM 3.0 I again determine this intersection's lat and lon and covert to decimal format. It is then just a matter of creating the above shown text file and saving it in the images subfolder of WinAPRS

Note that because most of these maps cover broad areas (with little zoom detail) and have exaggerated features -- pin-point accuracy is not a must. A good approximation will suffice in most instances. And you can also do this with just about any orthogonally correct image file, not just web-based weather maps.

I hope I haven't insulted anyone's intelligence with this post. It wasn't my intent. The instructions included in the WinAPRS docs make the assumption that the user has a basic knowledge of image and file manipulation as well as dealing with URL's. Not everyone on this SIG has this experience - YET. :)

Also, for those who haven't tried it because it looks hard, I assure you it is not. I think it took me about 10 to 12 minutes on my first attempt to get it working. The gee-whiz factor makes every minute spent worth it. If you have a favorite web based local weather map, you really have no excuse NOT to include it in your WinAPRS setup.

73,

Mark  
KC7BXS

---

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### 339. [aprssig] Re: Cable Entrance

From: "Denis" <wb8skp@upmail.com>  
Date: Thu, 14 Dec 2000 03:36:19 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124426-2000.12.13-14.48.59--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Claude, Frank

Frank I have same setup as you but used a 3" pipe. It has been in place for 14 years now. It works for me.

Denis

> Claude,  
>  
> Here's what I did with my telephone wiring when  
> I moved in. I suspect you could do the same thing  
> with coax.  
>  
> My house is wood frame construction with siding on the  
> outside. I drilled an approx 2" diameter hole all the way  
> through the wall (both sides), and slipped a piece of PVC  
> pipe through the hole. I made sure the hole would have a  
> tight fit around the outside of the PVC pipe when installed.  
> The pipe comes out just above the floorboard inside in the  
> telephone equipment room, and extends about 1" into the  
> room. It is situated in a corner and hidden by furniture, so  
> it is not unsightly.  
>

> Then I added a 90 degree elbow to the outside end of the  
> pipe. The elbow faces down, and serves to keep water  
> out. Then I pulled all my cables through the pipe, one at  
> a time, terminating them on the inside as I went.  
> I made sure to route the cables through a drip loop outside so  
> water doesn't run down the cables into the pipe.  
>  
> When I was done the pipe was about 60 percent full. Then I squirted  
> a little self-expanding foam insulation into the elbow (outside)  
> to close up the remaining hole. I put a rag in the pipe on  
> the inside to discourage insects from getting in.  
>  
> I have had occasion to add wires to the pipe several times  
> over the last 10 years (the pipe is actually full now). Each time  
> I just use a screwdriver to chisel out the foam to open the  
> hole, and remove the rag on the inside.  
>  
> I would add this advice based on hindsight: Use a pipe  
> which is much larger than you think you'll ever need.  
> This will not only keep you from filling up the pipe, but also  
> allow you to pull cable which already has connectors installed.  
>  
> Good luck on your project.  
>  
> Frank Ingle  
>

---

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---

### 340. [aprssig] Re: Cable Entrance

From: "Denis" <[wb8skp@upmail.com](mailto:wb8skp@upmail.com)>  
Date: Thu, 14 Dec 2000 03:49:10 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-124427-2000.12.13-15.03.30--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-124427-2000.12.13-15.03.30--lyris.aprssig#tapr.org@lists.tapr.org)>  
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J.B. Weazle,

I like your use of the sponge. The foam I use gets  
very hard after a few years. I'll try a sponge next  
time.

Denis

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### 341. [aprssig] Re: Cable Entrance

From: Bill Vodall <[wa7nwp@yahoo.com](mailto:wa7nwp@yahoo.com)>  
Date: Wed, 13 Dec 2000 13:17:41 -0800 (PST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-124429-2000.12.13-15.29.26--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-124429-2000.12.13-15.29.26--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

--- Denis <[wb8skp@upmail.com](mailto:wb8skp@upmail.com)> wrote:

> J.B. Weazle,  
>  
> I like your use of the sponge. The foam I use gets  
> very hard after a few years. I'll try a sponge next  
> time.

I recently heard the suggestion of using fiberglass insulation  
to stuff the pipe. Doesn't get hard and the fibers are lethal  
to the bugs.

Bill - WA7NWP

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Yahoo! Shopping - Thousands of Stores. Millions of Products.  
<http://shopping.yahoo.com/>

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### 342. [aprssig] RE: Cable Entrance

From: Jeff Reinhardt <[jreinh@ix.netcom.com](mailto:jreinh@ix.netcom.com)>  
Date: Wed, 13 Dec 2000 13:20:35 -0800  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-124430-2000.12.13-15.33.28--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I stuffed mine with steel wool. Rodents don't chew through it.  
(I have been warned about the pernicious "metal-mites" however.  
So far, no sight of them, although they once ate a '76 Volare I owned  
when I lived back east. :-) )  
Jeff Reinhardt AA6JR

---

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---

### 343. [aprssig] Re: Cable Entrance

From: Mark Fellhauer <[sparkfel@primenet.com](mailto:sparkfel@primenet.com)>  
Date: Wed, 13 Dec 2000 15:50:30 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-124431-2000.12.13-16.05.38--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 02:49 AM 12/14/00, Denis wrote:  
>J.B. Weazle,  
>  
>I like your use of the sponge. The foam I use gets  
>very hard after a few years. I'll try a sponge next  
>time.

And I thought they pulled "the sponge" off the market... ;)

I like Linda Mullen's solution, and it's the one I use - Fiberglass  
Insulation. Although I don't live in Alaska - it's about as cold here in  
SoDak as it is in Fairbanks.

Fiberglass has several advantages. Bugs hate the stuff. It doesn't  
rot. It's flame resistant. And it's removable/restuffable. And here's  
the part that most hams like: It can often be had for FREE.

Many local home centers have a bin with insulation "ends" in them that you  
can bag and take. The local Menard's sells a pretty big bag of "stuffing"  
for about 50 cents. Speaking of Menard's, their loud jovial spokesman  
for many years is/was Ray Szmanda, KB9JPB.

I don't think I use steel wool. It rusts in the bag around here.

Although a lot of people are using PVC pipe, I've seen some monster setups  
where the feed through is a 3 or 4 inch dryer duct vent. The sloped  
outside shell sheds water quite well.

73,

Mark  
KC7BXS

---

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#### 344. [aprssid] RE: Cable Entrance

From: B Keyport <[bkeyport@qwest.net](mailto:bkeyport@qwest.net)>  
Date: Wed, 13 Dec 2000 14:12:24 -0800  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Cc: [aprssid@tapr.org](mailto:aprssid@tapr.org)  
Message-ID: <[LYR842-124434-2000.12.13-16.28.04--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-124434-2000.12.13-16.28.04--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

>I stuffed mine with steel wool. Rodents don't chew through it.  
>(I have been warned about the pernicious "metal-mites" however.  
>So far, no sight of them, although they once ate a '76 Volare I owned  
>when I lived back east. :-) )

ya, and I bet they only get real hungry in the winter, right? :)

---

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#### 345. [aprssid] RE: Cable Entrance

From: "Brian B. Riley" <[brianbr@macconnect.com](mailto:brianbr@macconnect.com)>  
Date: Wed, 13 Dec 2000 17:13:18 -0500  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-124436-2000.12.13-16.28.31--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-124436-2000.12.13-16.28.31--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

> -----Original Message-----  
> From: Frank Ingle  
> Sent: Wednesday, December 13, 2000 10:07 AM

[snip]

> When I was done the pipe was about 60 percent full. Then I squirted  
> a little self-expanding foam insulation into the elbow (outside)  
> to close up the remaining hole. I put a rag in the pipe on  
> the inside to discourage insects from getting in.

I did essentially the same thing, though I used a "T" on the inside  
tosend the wire left or right and protect the 'bend' from being banged  
etc ... the real key is the foam filler. I am always adding and  
subtracting things. I used a modeling clay like stuff that electricians  
use in conduit. I forget what it is called but its a dark gray and is  
still slightly pliable at very low temps but doesn't get droopy at high  
temps. It doesn't dry out, it can be easily removed and reused, but it  
keeps the vermin, bugs, and drafts out. I then stuff some cotton batting  
in from the inside (The "T" also allows the 'stuffing' to be not so  
visible.

---

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#### 346. [aprssid] 9600bps radios, was Re: APRS Satellite Details

From: Jeff King <[jeff@aerodata.net](mailto:jeff@aerodata.net)>  
Date: Wed, 13 Dec 2000 18:14:28 -0500  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>, [K3for@aol.com](mailto:K3for@aol.com)  
Message-ID: <[LYR842-124439-2000.12.13-17.22.40--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-124439-2000.12.13-17.22.40--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Mark Fellhauer wrote:

>  
> At 10:52 AM 12/13/00, Jeff King wrote:  
>

(my comparison of proper 9600bps radios to pseudo 9600bps radios clipped for  
lycos brevity)

> >Why is it that hams can accept and make excuses for apparent shoddy  
> >engineering?  
>  
> Which again shows you that no matter what you do in Ham Radio and  
> especially on this SIG, people will bellyache on anything one does.

And once again shows me that you snip and cut your quotes to suit whatever spin you hope to achieve.

For the record, I clearly stated in my posting, at the top so you and others wouldn't miss it, the following:

>(On the D7/700 9600bps Kenwood radios)

Yet you conveniently missed it, instead going into a diatribe about AMSAT. I've not mentioned them nor was my message about them or satellites. Yes, the title was about satellites, yet the thread I was in had nothing to do with them.

If you want to bellyache about this SIG, then you provide a good example. That is, people taking postings the way they want to take them, without regard to the authors point.

And my point was that amateur radio manufacturers should be held accountable for their equipment, if not in the marketplace then later down the road in making the equipment work.

Since, at least to me, this seems a reasonable request, one you apparently disagree with (saying expecting good gear is "bellyaching"), can you answer my question that I quoted, which was:

>Why is it that hams can accept and make excuses for apparent shoddy engineering?

Even if you think its bellyaching, I'd be interested in your feelings on this.

Thanks

Jeff

CC: K3for@aol.com

CC:

>  
> Over the years I've attended many AMSAT presentations on the P3D  
> project. At every presentation there would be at least a handful of  
> agitators complaining that AMSAT was was trying to build a Cadillac of a  
> satellite, that they were over-engineering it, it was taking too long, and  
> that the Ariane launch vehicle was gonna blow up on the launch pad...  
>  
> The point was always made that AMSAT could've built and launched 10  
> satellites for the same price in a shorter time period. In each case  
> there was always the "threat" of said agitators that they were not going to  
> renew their AMSAT memberships currently and would never contribute  
> again. Not only did I see it in person, but the sentiment was reflected  
> on SIGs and Newsgroups.  
>  
> I wonder how many of those critics are now excitedly putting together their  
> AO-40 station?

---

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### 347. [aprssid] Re: 9600bps radios, was Re: APRS Satellite Details

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Wed, 13 Dec 2000 18:31:18 -0600  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssid@lists.tapr.org>  
Message-ID: <LYR842-124446-2000.12.13-18.44.00--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 05:14 PM 12/13/00, Jeff King wrote:

>And once again shows me that you snip and cut your quotes to suit whatever  
>spin  
>you hope to achieve.  
>

I quoted you as completely as I could - of course this has been a multi-part thread and many topics have segued in and out of the discussion. Again, I've been chastised on this sig for my lack of brevity many times. And in trying to reign myself in I have upset you.

When I brought up the Artemis Project - which is in the planning stages - you attributed things into the plans that aren't there or were even implied by me. And you did it twice.

My response, although quoting you, was in response to the general tenor of many people in APRS on this subject. You have most recently voiced your opinion to me that you think that we should address the problems of the terrestrial network before we venture into any type of satellite or space based APRS. And so have several others. Many have done so (not you though) by denegrating the efforts of Bob Bruninga in general and his so-called space madness. I would go as far as to say some people's objections are red herrings in an attempt to roadblock an APRS Satellite.

As for the shoddy engineering part (sorry I'm not putting your quotes into this response). Life is a compromise. Developing, manufacturing, and marketing a product requires compromise. Developing and launching a space platform requires compromise.

Do most 9600 BPS "ready" radios exhibit problems in the BER (and latency) department. You Bet. Can it be improved. You bet. Do most hams want to pay extra (even \$20) for a transceiver that does both data and voice exceptionally well. Most hams will say yes, but marketing analysts say no. Based on what I've seen, I'd have to agree with the marketing analysts.

Do the Kenwood TM-D700 and TH-D7 have problems. YES. Have I pointed out some of these problems to the SIG? Yup. The TH-D7 doesn't work with 9600 BPS terrestrial BBS's in packet mode because the ABAUD is too low and the buffer is too small - BER aside. Does the TH-D7 stop decoding 1200 baud packets if someone sends a UI frame longer than 159 bytes? Yup.

On the flip side of the coin. Kenwood actually stuck their neck out in bringing these products to the market. ICOM and Yaesu have yet to respond with any type of "APRS Ready" hardware. Kenwood has shown a willingness to work with the ham community at least marginally by offering firmware upgrades for the TH-D7. I remember several years back when the TH-79 was released and several bugs were discovered in the original firmware - which was subsequently fixed in later releases. At that time early adopters were informed that if they wanted the new firmware they'd have to buy a new radio!

Would it be nice if Kenwood addressed these issues and offered to fix them free or at a reasonable cost. Yes. Is Kenwood under any obligation to do so. Probably not. Are these examples of shoddy engineering? I can't say. I've never worked on a transceiver design team. I have expressed concern that the TNC design in the TS-2000 is identical to the D700 and D7 and that it appears the problems have not been addressed.

Is it wrong to design an APRS satellite with the two Kenwood Radios in mind? Probably not. As Bob pointed out, so far they're the only commercial integrated packages (Dual-Band Radio/TNC/Display) available and quite popular.

Would some people think I making excuses and accepting shoddy engineering? I suppose so. I would say I've accepted reality. Remember it's an AMATEUR radio transceiver. It is not a mission critical

device. It is not a a flight control computer in a Boeing 777 nor an NMR machine.

73,

Mark  
KC7BXS

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### 348. [aprssig] Re: 9600bps radios, was Re: APRS Satellite Details

From: Jeff King <jeff@aerodata.net>  
Date: Wed, 13 Dec 2000 20:41:47 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124451-2000.12.13-19.49.04--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Mark Fellhauer wrote:

> At 05:14 PM 12/13/00, Jeff King wrote:

> >And once again shows me that you snip and cut your quotes to suit whatever  
> >spin  
> >you hope to achieve.

> I quoted you as completely as I could - of course this has been a multi-part  
> thread and many topics have segued in and out of the discussion. Again,  
> I've been chastised on this sig for my lack of brevity many times. And In  
> trying to reign myself in I have upset you.

You left out a single sentence that structured the whole discussion. This is not brevity when you quote my entire statement, but leave out the single sentence that sets the tone.

> My response, although quoting you, was in response to the general tenor of  
> many people in APRS on this subject. You have most recently voiced your  
> opinion to me that you think that we should address the problems of the  
> terrestrial network before we venture into any type of satellite or space  
> based APRS.

Again, you are misquoting me. If you will re-read that earlier message, you'll see that I am a advocate of low earth orbit satellites... in fact stating they make alot of sense for digital communications with hand held radios (and in fact that is what Bob's project is).

What I said was your moon based transponder doesn't make alot of sense other then to be "neat". I said there were other things that were more deserving of our time then pie in the sky ideas that make little technical sense and don't solve any of our immediate problems on APRS.

> As for the shoddy engineering part (sorry I'm not putting your quotes into  
> this response). Life is a compromise. Developing, manufacturing, and  
> marketing a product requires compromise. Developing and launching a space  
> platform requires compromise.

Why do you insist on continuing to spin this? My comments had nothing to do with a space platform. Again, I said in my message:

>>(On the D7/700 9600bps Kenwood radios)

To keep bringing satellites, Bob's project and Amsat into this is pointless.

> Do the Kenwood TM-D700 and TH-D7 have problems. YES. Have I pointed out  
> some of these problems to the SIG? Yup. The TH-D7 doesn't work with 9600  
> BPS terrestrial BBS's in packet mode because the ABAUD is too low and the  
> buffer is too small - BER aside. Does the TH-D7 stop decoding 1200 baud  
> packets if someone sends a UI frame longer than 159 bytes? Yup.

OK. So if you agree with me, then why the earlier attack and misquote?

> On the flip side of the coin. Kenwood actually stuck their neck out in

> bringing these products to the market.

Oh PLEASE.... I get tired of hearing this stuff. If they aren't making a profit, then they will be gone in a New York minute. They took a risk because they saw a market. Hams are under the illusion the Japanese manufacturers are doing them a favor.... yeah, right. Their market (hams) is much larger than ours, and at best, we are a distant second to their home market. Wake up here. No one is doing you a favor.

My objections here are why do hams put up with shoddy engineering? Its not at all hard to make a decent 9600bps radio.... apparently this thing doesn't even comply with the APRS trademark it carries! Kenwood is showing DISRESPECT to the worldwide ham market by selling a flawed product likes this and not fixing it. You can call it marketing, something they are good at it, but this is "supposed" to be a technical hobby and we should know better. By accepting a flawed product, we make it "OK" for them to keep marketing flawed products in the future to us. Hey, everyone makes mistakes, but to CHARGE THE END USER to fix their bugs?!? Yes sir, I liked it, please hit me again!!

> Would it be nice if Kenwood addressed these issues and offered to fix them  
> free or at a resonable cost. Yes. Is Kenwood under any obligation to do  
> so. Probably not.

Hmmm.... well, your right, they don't have to. But my motherboard bios is a free flash upgrade, my garmin GPS is a free flash upgrade, my TNC2 is a free upgrade (I have to burn the EEPROM), the TNC3, a modern day TNC, is a free upgrade at least for XNET, etc.

Its all a matter of respect.... features, sure, I have no problem being charged for a feature upgrade. But is it to much to expect a product works as advertised? Hey, maybe I should start marketing to hams since they have such a low expectation of quality!!

> Are these examples of shoddy engineering? I can't  
> say. I've never worked on a transceiver design team. I have expressed  
> concern than the TNC design in the TS-2000 is identical to the D700 and D7  
> and that it appears the problems have not been addressed.

Yet you (apparently) bought one of their radios. What lesson did your vendor learn? (Hint: Yes sir, I liked it, please hit me again!)

> Is it wrong to design an APRS satellite with the two Kenwood Radios in  
> mind? Probably not.

Again, did I say this? Spin alert. I entered this discussion simply saying the Kenwood (apparently) was not reflective of the state of the art regarding 9600bps radios. I objected to a generalization that was being made, and not to the design constraints that Bob was operating under. Now, I will agree with those that say it is a sad day when a amateur satellite has to be compromised due to the (apparent) defects of a particular manufacturers radio.

> Would some people think I making excuses and accepting shoddy  
> engineering? I suppose so. I would say I've accepted reality. Remember  
> it's an AMATEUR radio transceiver. It is not a mission critical  
> device. It is not a a flight control computer in a Boeing 777

But a cheap off the shelf \$125 (\$250 with TNC) radio, designed years ago, can run rings around it on 9600bps. This is the sad thing.... and with the way the state of the art has advanced, there is no excuse for this. At most, we are talking \$5 to \$10 extra to make a modem high performance data radio yet Kenwood doesn't consider this important enough. And yes, the market place has spoken. Bells and whistles are more important to hams then actually function.

But I have the satisfaction my \$125 Volkswagen can outrun and outdistance your \$500+ Cadillac with the blown head gasket and 5 gallon tank. I just don't have the heated seats,dual zone climate control system, talking driver alert system and plastic wood veneer. Oh well, life is cruel. ;-)

-Jeff

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### 349. [aprssig] Re: Intellicast radar

From: David VanHorn <dvanhorn@cedar.net>  
Date: Wed, 13 Dec 2000 21:48:06 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "'aprssig@lists.tapr.org'" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124468-2000.12.13-21.02.24--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 08:16 AM 12/13/00 -0600, David Locke wrote:  
>I would love to see an application that will overlay APRs with WX radar  
>product(s). I don't think it's possible since the radar is a web based  
>product and APRS is really not.

It used to work, but Intellicast took steps to make sure that nobody could  
get the products without watching the commercials.

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

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### 350. [aprssig] Re: Cable Entrance

From: "Dale E. Reed" <w8abz@core.com>  
Date: Thu, 14 Dec 2000 04:10:02 -0000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124476-2000.12.13-22.23.35--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Claude (and SIG),

I found a great way to get cables into my house for my attic shack, but it  
took a few bucks to "do it right" -- and it would also be wise to check out  
the National Electrical Code section on Amateur Transmitting Antennas.  
(Yes, we have our own section, and there's also one on receiving  
antennas...)

Here's what I did, based on my interpretation of the Code and my desire to  
minimize lightning/static effects on my gear:

1. Materials: a PolyPhaser copper panel (which comes mounted on a wood  
board, along with clamps, anti-corrosive connector goop, etc.) plus a few  
bulkhead mount Alpha-Delta surge arresters (the only ones I've seen that are  
marked UL Listed), and a spool of 1.5" wide copper strap.

2. I drilled the board/copper panel and mounted the bulkhead connectors on  
the copper side, using some of the anti-corrosion stuff that comes with the  
PolyPhaser panel.

3. I cut a ragged hole in my soffit panel (you know, the board under the  
overhang behind the gutter) using a cheapo saber saw. The hole is a bit  
smaller than the outline of the copper panel, which is smaller than the  
outline of the board it's mounted on.

4. I screwed the PolyPhaser panel (copper side out) to the soffit using  
wood screws. Then I caulked around the board where it meets the house and  
around the copper plate where it sits on the board.

5. Using the clamps and goop that come with the panel, I attached the  
copper strap to the panel and ran it by a very direct path, right on the  
siding (and hidden by the downspout) to my ground rod for the house. (I  
chose a mounting location at the back corner of the house closest to the  
ground rod to minimize the distance.) Then using the clamp that came with  
the panel (and more goop), I attached the strap to the ground rod (polished  
brightly first, of course).

6. From the antennas, I run the coax supported on galv. steel guys  
("messenger" cables) looped on an insulator screwed into the house, leave a  
drip loop, put on the connector, attach it to the panel, and seal the whole  
mess with other goop.

7. Now the hardest part: I had already attached the inside cables to the  
top of the panel before attaching it to the house. Now crawl up in the  
stupid attic, bonk your head and scrape your knuckles a few times, and fish  
the cables over to the attic wall (in my case), cut a hole, put in an  
electrical box with a coax-connector faceplate, and make it look really

professional. If you're luckier than I am, the radio table will be along the same wall. I was too lazy (inexperienced) to fish the cables to the other wall where the table is. Home Depot had a neat line of modular faceplates, so I have a couple boxes, one for antennas, and one for phone and one for Cat. 5 UTP.

The only downsides so far:

1. It ain't cheap. But we just bought the house and we plan on staying and I wanted to do it right.

2. Got a nice ground loop through the coax on one side and the ground wire in the 12/2/G house wiring on the other side. So I use a (scrounged) isolation transformer for the power to the PC and radio when I run SSTV/RTTY/PSK with the sound card. Next step, of course, is to buy ground loop isolators for the coax. Saw em in the AES catalog, so I'll put em on my Santa list. Well, maybe next year.

On the plus side, it has a nice patina and looks great on my old house.

Hope this helps.

Dale, W8ABZ

Cleveland Heights, OH EN91

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### 351. [aprssig] FS: 2 Unbuilt HamHUD II - 90% of all components

From: "James A. Martin Jr." <tapr@jmartin.net>

Date: Wed, 13 Dec 2000 22:21:31 -0600

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Message-ID: <LYR842-124481-2000.12.13-22.39.58--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

SIG,

I never got around to building the 2 HamHUD II I purchased back in July. They are now on eBay as a single item (item # - 1202197402).

Everything is included for two complete HamHUD II's except the small parts you can purchase from RadioShack (about \$15 worth).

Here is a link to the packing list from DigiKey:

[http://www.jmartin.net/eBay/ham\\_parts\\_L.jpg](http://www.jmartin.net/eBay/ham_parts_L.jpg)

Here is a link to the auction:

<http://cgi.ebay.com/aw-cgi/eBayISAPI.dll?MfcISAPICommand=ViewItem&item=1202197402>

I accept PayPal.

Thanks,  
James M.  
KD5HAD

---

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### 352. [aprssig] Re: FS: 2 Unbuilt HamHUD II - 90% of all components

From: "Brian Frobisher" <flingit@lather.com>

Date: Wed, 13 Dec 2000 20:50:45 -0800

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Message-ID: <LYR842-124482-2000.12.13-23.05.28--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

I know this is not the forum for this....

But....your item is not for sale, it is for auction and I think that is better left off here.

----- Original Message -----

From: "James A. Martin Jr." <tapr@jmartin.net>  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Sent: Wednesday, December 13, 2000 8:21 PM  
Subject: [aprssig] FS: 2 Unbuilt HamHUD II - 90% of all components

> SIG,  
>  
> I never got around to building the 2 HamHUD II I purchased back in July.  
> They are now on eBay as a single item (item # - 1202197402).  
>  
> Everything is included for two complete HamHUD II's except the small parts  
> you can purchase from RadioShack (about \$15 worth).  
>  
> Here is a link to the packing list from DigiKey:  
> [http://www.jmartin.net/ebay/ham\\_parts\\_L.jpg](http://www.jmartin.net/ebay/ham_parts_L.jpg)  
>  
> Here is a link to the auction:  
>  
<http://cgi.ebay.com/aw-cgi/eBayISAPI.dll?MfcISAPICommand=ViewItem&item=1202197402>  
>  
>  
> I accept PayPal.  
>  
> Thanks,  
> James M.  
> KD5HAD  
>  
>  
> ---  
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### 353. [aprssig] Re: 9600bps radios, was Re: APRS Satellite Details

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Thu, 14 Dec 2000 00:59:47 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124509-2000.12.14-01.12.39--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 07:41 PM 12/13/00, Jeff King wrote:

>Why do you insist on continuing to spin this? My comments had nothing to do  
>with a space platform. Again, I said in my message:

Again, just because I quoted you doesn't mean that I'm responding to exactly what you said. I even said I was responding to the general tenor of the ENTIRE discussion. You're over personalizing and I think being highly over sensitive.

My comments are not personal attacks on you, Jeff, please don't take them that way. Perhaps It would be better if no one one the SIG quotes you or responds to your comments anymore. I can't seem to do anything more to have any kind of public discourse with you without offending you or for you to consider it an attack.

>OK. So if you agree with me, then why the earlier attack and misquote?

Again. I was not trying to attack you, nor trying to misrepresent what you said. Yes, the Kenwood radios have some flaws, but I can't find any piece of technology in my home that doesn't have some design or feature flaw that could be improved. And I can say the same about my car.

> > On the flip side of the coin. Kenwood actually stuck their neck out in

> > bringing these products to the market.

>

>Oh PLEASE..... I get tired of hearing this stuff. If they aren't making a  
>profit, then they will be gone in a New York minute. They took a risk because  
>they saw a market. Hams are under the illusion the Japanese manufacturers  
>are doing them a favor..... yeah, right. Their market (hams) is much larger  
>then ours, and at best, we are a distant second to their home market. Wake  
>up here. No one is doing you a favor.

As I've stated before Kenwood is no friend of mine, but they have taken steps to improve their customer service image in the ham radio field. I am under no illusions as to why. I understand profit motive as I am a firm capitalist and I applaud Kenwood's initiative. But I also understand when healthy skepticism turns to paranoia. Having worked in the environmental field, I've been accused of gouging clients. My retort was that I lived in a condo in Glendale and drove a Geo. Had I been gouging them I would've had a house in Paradise Valley and been driving a Mercedes Benz. Despite taking steps to alleviate certain client's doubts - like opening our books to them, there were always a few who thought you were pulling a fast one.

>My objections here are why do hams put up with shoddy engineering? Its not  
>at all hard to make a decent 9600bps radio..... apparently this thing doesn't  
>even comply with the APRS trademark it carries! Kenwood is showing DISRESPECT  
>to the worldwide ham market by selling a flawed product likes this and  
>not  
>fixing it. You can call it marketing, something they are good at it, but  
>this is  
>"supposed" to be a technical hobby and we should know better. By accepting  
>a flawed product, we make it "OK" for them to keep marketing flawed products  
>in the future to us. Hey, everyone makes mistakes, but to CHARGE THE END USER  
>to fix their bugs?!? Yes sir, I liked it, please hit me again!!

I can't even try to respond to this. No matter what I say, it'll upset you.

> > Would it be nice if Kenwood adressed these issues and offered to fix them  
> > free or at a resonable cost. Yes. Is Kenwood under any obligation to do  
> > so. Probably not.

>

>Hmmm.... well, your right, they don't have to. But my motherboard bios is a  
>free flash upgrade, my garmin GPS is a free flash upgrade, my TNC2 is a free  
>upgrade (I have to burn the EEPROM), the TNC3, a modern day TNC, is a free  
>upgrade at least for XNET, etc.

I'm gonna go back to the you can't please anyone defense here. Look at the sci.geo.satellite.nav newsgroup. There is a major amount of complaining going on by people who RESENT the "incessant" (their words not mine) firmware upgrades by Garmin. Furthermore it appears some european versions of Garmin GPS's won't accept these upgrades. Then there are the people who are upset because Garmin only issues upgrades that work through the PC platform (what about MACs). And there is major resentment among many that Garmin charges so much for their cables and Mapsource CD's. Many people seem to think that Garmin releases so many product upgrades because they aren't doing proper product testing in the first place.

Having worked in the executive complaint dept. of a major computer OEM, many people got MAD when I explained we could resolve their problem with a FREE firmware upgrade (to BIOS, DVD Player, MPEG DECODER CARD, Video card, hard drive, etc.). Many times people would exclaim, "You mean you sold me a defective product and now I have to take care of it..." Often followed by a long diatribe about improper proper product testing, breach of contract...yada yada yada...

Many times the firmware upgrade was to deal with 3rd party issues - Like Columbia Pictures changing their encryption on DVD titles.

As for my own experience with FREE BIOS Flashes - I have a Tyan Motherboard of which I flashed the BIOS to allow it to see a 40 GB hard drive properly. After the flash one of my USB ports stopped responding. Flashing back to the older BIOS it started working again. Flashed to new - reset MBD by jumper. Still one of the USB ports died. Tyan responded to my email with a canned generic BIOS flash message. Subsequent emails and phone calls to them have gone unanswered. No one on the usegroups has been able to help either.

Kenwood charged for their upgrade on the TH-D7, but it was a major software change. Why does the upgrade require cracking the case and soldering some connections on to reprogram the HT. I dunno, but I bet it has something to

do with FCC restrictions. I have an AOR AR-2700 scanner and it is a simple matter to hook up an interface and run a qbasic program and open up RX from DC to Daylight w/o any gaps. The FCC made many manufacturers pull scanners that could be modified by keyboard or software. I seem to recall they were asking that all electronics in these radios be POTTED. Opening the case of the Kenwood radio costs money. I felt that \$60 for doing it was pretty reasonable. It's about one hour of bench time at any repair shop. I do not pro-rate the first hour of computer work I do either.

>Yet you (apparently) bought one of their radios. What lesson did your >vendor learn? (Hint: Yes sir, I liked it, please hit me again!)

I bought it from HRO at Dayton. They sold the radio at a very resonable price - for a dual band HT, even w/o including the TNC/APRS features (Far cheaper than my FT-51R). Kenwood threw in a speaker-mic at no additional cost. At the time the radio was relatively new and the bugs were not yet known. I like the people at HRO. I like the people at Burghardt's. Recently the tech department at Burghardt's SAVED me money by telling me NOT to drive my dead FT-8500 up to them, that it was probably just a dead battery. Those evil money grubbers! I wonder what alterior motive they had?

> > Is it wrong to design an APRS satellite with the two Kenwood Radios in  
> > mind? Probably not.  
>

>Again, did I say this? Spin alert.

Again, I was responding to the general tenor of the ENTIRE thread. This was brought up, maybe not by you, but again just because I quoted you in one part of my response doesn't mean I'm responding to you all the time.

This is generally understood by most of the participants in this SIG. Apparently - despite me explaining that several times now, it hasn't dawned on you.

>But a cheap off the shelf \$125 (\$250 with TNC) radio, designed years ago, can >run rings around it on 9600bps. This is the sad thing.... and with the way the >state of the art has advanced, there is no excuse for this. At most, we are >talking \$5 to \$10 extra to make a modem high performance data radio yet >Kenwood >doesn't consider this important enough. And yes, the market place has spoken. >Bells and whistles are more important to hams then actually function.

But that radio generally needs to be massaged. Don't know where you get a 9600 BPS TNC most places for \$125. Perhaps it's with the mythical \$25 HT. I did once manage to buy a Spirit II for \$75 from Lew McCoy (W1ICP now SK) - of all people. I can see why he sold it so cheap. It would lock up if the power to it rippled in the slightest. Replacing the caps didn't help. I'm told that this is a feature of the Spirit II.

Anyhow, yes you can buy a commercial radio and massage it to run 9600 BPS. Can you put it in a coat pocket? Does it have a built-in display? Is it dual band? Can you change frequencies on the fly? Does it run on a battery pack smaller than a pack of cigarettes?

As I have pointed out before, an additional \$5 or \$10 may knock you out of a marketing price point and when you start talking about a production run of 100,000 an additional \$5 per unit may make the difference between turning a profit or having the coporate higher-ups kill you project, even in a multi-billion dollar company. I've seen it in companies I've worked for.

I'm not even certain what your point is. I recently heard the sysop of the local 9600 BPS packet BBS lament over the air that NO ONE logs into his BBS anymore. 9600 BPS terrestrial packet is a non-starter. It literally never left the starting gate. I look at any 9600 BPS operation in the HT as strictly a bonus. Although it would be nice if it worked on the HT, I probably wouldv'e bought one even if the on-board TNC was 1200 baud only. The 9600 BPS portion works great for APRS ops through the radio though.

>But I have the satisfaction my \$125 Volkswagen can outrun and outdistance your >\$500+ Cadillac with the blown head gasket and 5 gallon tank. I just don't >have the heated seats,dual zone climate control system, talking driver alert >system and plastic wood veneer. Oh well, life is cruel. ;-)

Funny, my mom's car was just stolen and my brother and I just had this discussion. My mom had a 1987 Mercury Grand Marquis (Durn near a Cadillac). My brother and I were batting around cars she should look at. I asked if he'd considered Volkswagon. My brother asked me how many 10 to 15 year old Volkswagons I see on the road (He's a bright guy). After thinking about it for a while I had to say, not many. And I know a lot of people who owned Golfs, Jetta's, Cabriolets and Foxes, all bought in the late 1980's. I don't see any of those cars on the road anymore. However, I can't drive a mile without seeing a mid 80's Grand Marquis or Cadilliac, even the little Cimmarons. My mom didn't buy a Cadillac, she got a big new BUICK, though - with all the bells and whistles.

I just don't think the Volkswagon analogy is a good one. Rusty little german buzz boxes. And I've driven Beetles. About as good as a lawn tractor for transport, IMHO. But I digress...

73,

Mark  
KC7BXS

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### 354. [aprssig] Re: 9600bps radios, was Re: APRS Satellite Details

From: Jeff King <jeff@aerodata.net>  
Date: Thu, 14 Dec 2000 03:46:48 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124522-2000.12.14-02.54.19--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Mark Fellhauer wrote:

>

> Perhaps It would be better if no one one the SIG quotes you or  
> responds to your comments anymore.

If your writing me, and quoting me, I'm just asking you do it accurately without any excessive editing or spin meistering. That's all.

> >But a cheap off the shelf \$125 (\$250 with TNC) radio, designed years ago, can  
> >run rings around it on 9600bps.

> But that radio generally needs to be massaged.

Neither radio that was cited on here needed to be massaged to any degree, certainly less then a AFSK one.

<http://www.multicom2way.com/tekk-ks960.htm>

> Don't know where you get a  
> 9600 BPS TNC most places for \$125.

Your right, the 9600bps one was \$137.95, the 1200 baud one was \$125. Sorry about that.

<http://www.symek.com/g/index-g.html>

> Perhaps it's with the mythical \$25  
> HT.

It is this attitude that is causing me to take it personal. I typically don't make a statement unless I have some hope of backing it up. When have I not done this?

> Anyhow, yes you can buy a commercial radio and massage it to run 9600  
> BPS. Can you put it in a coat pocket? Does it have a built-in  
> display? Is it dual band? Can you change frequencies on the fly? Does it  
> run on a battery pack smaller than a pack of cigarettes?

No, not at all, it's just a true 9600bps data radio that works.  
Like I said, it depends on your goal. If you want to impress the Klingon women at the next Star Trek convention, your better off with the Kenwood. But if your goal was 9600bps data operation, from what I have read here on the SIG, you'd be better off with the TEKK/TNC2H combo.

> I'm not even certain what your point is.

Well, I've gone over it 2 or 3 times already, from my last message(s):

>>I entered this discussion simply saying  
>>the Kenwood (apparently) was not reflective of the state of the art regarding  
>>9600bps radios. I objected to a generalization that was being made, and not  
>>to the design constraints that Bob was operating under.

and

>>And my point was that amateur radio manufacturers should be help accountable  
>>for their equipment, if not in the marketplace then later down the road in  
>>making the equipment work.

What exactly is not clear here?

> I recently heard the sysop of the  
> local 9600 BPS packet BBS lament over the air that NO ONE logs into his BBS  
> anymore. 9600 BPS terrestrial packet is a non-starter. It literally  
> never left the starting gate.

In the U.S., that's largely correct. Yet, it's not a reason for us to accept shoddy engineering. If anything, your making the point that Kenwood has further doomed any terrestrial 9.6kbaud packet due to the poor performance of their radio. And of course, the reason I got involved in this discussion, was to point out the fact that the Kenwood was not reflective of a state of the art 9.6kbaud radio, nor should hams accept this. Just say NO and demand they address performance issues.

Getting way off topic but we can use the diversion....

> And I know a lot of  
> people who owned Golfs, Jetta's, Cabriolets and Foxes, all bought in the  
> late 1980's. I don't see any of those cars on the road  
> anymore.

My last VW I retired at 250K+ miles, still running good, but was looking ugly. The one I am driving now is at 148,000 miles. Both were 1990 models (Jetta Diesels). And I'm in the road salt belt at that (Michigan). Fact of the matter is, every VW I have owned went well past 100,000 miles. Recycled bugs up here has a 200,000+ mile club and a few members have VW's that have over 400,000 miles on them. The nice thing about VW's is they don't change models every year, so used parts are abundant and the backyard mechanic can work on them. They are cheap and a great beater.

> I just don't think the Volkswagen analogy is a good one.

Well, Bob first mentioned it, and I thought it was a good analogy, abet he applied it 180 degrees out of phase. A true 9600bps radio gets the job done with no bells and whistles, like a VW. Apparently the Kenwood radios have lots of flash, but like that maxed out flashy Cadillac with the blown head gasket and 5 gallon gas tank, just don't run with the VW's when it comes to 9600 baud. Kind of the difference between a Swiss Army knife and a bowie knife. One does one job well but doesn't do a good job taking corks out of wine bottles.

But hey, I'm wrong here anyways. The marketplace has told us that core functionality doesn't matter anymore in ham radio, its just the bells and whistles that matter. If your happy with this, that's all that matters. I was just suggesting that it doesn't have to be this way. We don't have to agree.

BTW, will someone tell me what the part number is of the Kenwood 450/455khz IF filter? I suspect this is the root of your problem, at least for the reduced sensitivity. The slower changeover time is a different story, but we might be able to come up with a fix for the 9.6k receive.

-Jeff

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---

## 355. [aprssig] Re: FS: 2 Unbuilt HamHUD II - 90% of all components

From: "Hershel Saylor" <saylor@ori.net>  
Date: Thu, 14 Dec 2000 07:24:58 -0500

To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-124526-2000.12.14-06.38.00--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> But.....your item is not for sale, it is for auction and I think that is  
> better left off here.

This is just my opinion, but I feel that Mr. Martin is doing me a service by posting here. I am an avid eBay user, but I don't have time to keep up with all the different categories that interest me. By his posting here, I was alerted to an item that I find to be of interest. I also prefer to buy an item via eBay rather than buying from a list posting. Because of the feedback system I have a little better idea of who I am dealing with. (However, I have bought from many individual over the internet and have NEVER had a dishonest deal!!!)

I have been thinking of building something like the HamHUD for my bicycle. It would be nice to have an APRS display on the bike when I help with some of the local events. I am doing my planning for the Indy mini-marathon in May!!

BTW, do any of you have a GPS unit that you would like to part with at a give-away price? I have a Garmin unit that won't work off of external power. It is an older unit that I think was connected to 12 volts (smoked). The friend that I bought it from never mentioned that it only worked on batteries.

Hershel

---

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---

### 356. [aprssid] Re: Cable Entrance

From: "Kriss Alan Kliegle" <kliegle@nh.ultranet.com>  
Date: Thu, 14 Dec 2000 6:30:8  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-124527-2000.12.14-06.42.27--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hello from NH!

I use a two inch vent stack flashing on the roof, and dropped a 2" PVC pipe through the flashing inbetween an interior wall. All wires come out through a two inch hole behind the baseboard (mopboard). Outside I us two 90's to get the 2 "opening pointing down, so no rain enters. I too use fiberglass insulation. I run two 9913 cables & one RG-58 through this set up with room to spare.

No leaks and no bugs (mosquitoes are the state bird here in NH) also no unsightly wires going through partially blocked windows. We enjoy the views out ours w/out wires!

73 de Kriss

---

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### 357. [aprssid] Re: FS: 2 Unbuilt HamHUD II - 90% of all components

From: "Mike Yettsko" <myettsko@insydesw.com>  
Date: Thu, 14 Dec 2000 10:19:33 -0500  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-124563-2000.12.14-09.39.24--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

First off, I'll issue my apology in advance if this is kind of strong.

Brian, you're right and you're wrong.



It IS the forum for this, just not for his 'for auction' posting.

I have a personal aversion of even dealing with anyone who post a 'for sale' when it's really 'for auction'. I feel they are being dishonest about how they are trying to dispose of the unit, and would not trust them in any other dealings such as describing the condition of the unit or guarantee of functionality.

A 'for auction' is, in my mind, just another SPAM that something is for sale elsewhere, and inviting us to join the throngs bidding up the price on his wonderful item...

Right...

If anything, his post 'for sale' and then finding out it's 'for auction' just tells a lot of us to avoid this item, and this person.

Even if there is no deceit intended, then you're dealing with a person that doesn't grasp the concept of 'sale' vs 'auction', and again, I don't want to deal with him.

Bottom line? If it's for sale, then I don't mind seeing occasional dumps of personal items here on this list, if the item is APPROPRIATE to the list. But I don't belong to the list to be part of someone SPAMing to help EBay.

Keep it off!

Mike

---

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---

### 358. [aprssig] Re: FS: 2 Unbuilt HamHUD II - 90% of all components

From: David VanHorn <[dvanhorn@cedar.net](mailto:dvanhorn@cedar.net)>  
Date: Thu, 14 Dec 2000 10:41:35 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-124568-2000.12.14-09.57.09--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>Bottom line? If it's for sale, then I don't mind seeing occasional  
>dumps of personal items here on this list, if the item is  
>APPROPRIATE to the list. But I don't belong to the list to be part  
>of someone SPAMing to help EBay.

If that was what was happening, I'd agree.

I do agree that the subject line should be consistent with the method of sale, but I think you're reading too much into that. Never attribute to evil or malice that which "sloppy" can explain.

Personally, I don't care if he's selling, auctioning, drawing lots, or having a lotto, it's a piece of APRS related gear, and he has a reasonable expectation that the people on this group might be interested in buying it.

I don't see where he's "spamming for ebay" at all.

I absolutely don't want to see random ads for stuff on ebay here, or even ads for general ham gear, but I fail to see a problem with someone wanting to sell (by any mechanism) APRS related gear.

Do we really need  
APRS\_forsale\_(Not-Ebay)\_TNC\_(not-kantronics)\_West-Coast.....?

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

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### 359. [aprssig] Re: FS: 2 Unbuilt HamHUD II - 90% of all components

From: David VanHorn <dvanhorn@cedar.net>  
Date: Thu, 14 Dec 2000 10:43:25 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124569-2000.12.14-10.01.01--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>I have been thinking of building something like the HamHUD  
>for my bicycle. It would be nice to have an APRS display  
>on the bike when I help with some of the local events. I am doing  
>my planning for the Indy mini-marathon in May!!

Are you relatively local to me (Muncie)?

The HH is a nice gadget. Especially with the corner-pegging.

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

---

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### 360. [aprssig] HamHUD II vs. HamHUD III

From: Steve Bragg <steve@hamhud.net>  
Date: Fri, 15 Dec 2000 09:56:20 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124571-2000.12.14-10.09.21--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

James Martin wrote:

> I never got around to building the 2 HamHUD II I purchased back in July.  
> They are now on eBay <snip>  
> Everything is included for two complete HamHUD II's except the <snip>

I need to comment here, being the designer of the HamHUD II. I personally would not recommend that anyone build another HamHUD II, since HamHUD III is coming soon (we now have a prototype board running). Among other things, the HamHUD III will have a built-in KISS TNC and power control of your radio and GPS. If you'd like to take a look at the difference in features between HamHUDs II and III, please visit the HamHUD website:

<http://www.hamhud.net>

As for this one, I would recommend it to people who a) have already built a HamHUD (for spouses's car, etc.), or who do a lot of tinkering. The HamHUD II is NOT for the beginning builder, we found out.

Whoever buys this, please, PLEASE read the assembly notes and instruction manuals on the HamHUD website. Go to:

<http://hh2.hamhud.net>

Now I'll go back to stealth mode.

73,

Steve Bragg KA9MVA  
[steve@hamhud.net](mailto:steve@hamhud.net)

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Steve Bragg KA9MVA    [ka9mva@qsl.net](mailto:ka9mva@qsl.net)    ICQ:29816109  
HamHUD APRS Mobile Terminal: [www.hamhud.net](http://www.hamhud.net)  
Owasso, Oklahoma, USA  
Owasso Amateur Radio Club [www.qsl.net/oarc](http://www.qsl.net/oarc)  
FINDU, FIND ME WITH APRS! <http://map.findu.com/ka9mva-9>

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=====
Steve Bragg KA9MVA      ka9mva@qsl.net    ICQ:29816109
HamHUD APRS Mobile Terminal: www.hamhud.net
Owasso, Oklahoma, USA
Owasso Amateur Radio Club www.qsl.net/oarc
FINDU, FIND ME WITH APRS! http://map.findu.com/ka9mva-9
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---

### 361. [aprssig] RE: Kenwood Rigs and Bugs

From: "Pitts, Charles" <[cpitts04@sprintspectrum.com](mailto:cpitts04@sprintspectrum.com)>  
Date: Wed, 13 Dec 2000 23:54:23 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-124573-2000.12.14-10.19.23--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-124573-2000.12.14-10.19.23--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

When I sent an item to the sig about my D7 acting wierd and not recognizing packets I never thought it would start such a heated discussion. seems the sig is back to it's familiarity that I rather enjoy. however the issue with the D7 and the 195 charcters with the ax.25 protocol actually seems like a viable conclusion to the Kenwood issue. Like one stated that it does not interfere with the output and beacons just somehow the input and recognizability of the packets.....just a thought though...

Kevin Pitts KE4RC0

If quitters never win, and winners never quit, what fool came up with,  
"Quit while you're ahead"?!  
---

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### 362. [aprssig] Re: 9600bps radios, was Re: APRS Satellite Details

From: "Brian B. Riley" <[brianbr@macconnect.com](mailto:brianbr@macconnect.com)>  
Date: Thu, 14 Dec 2000 11:24:49 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-124577-2000.12.14-10.40.15--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-124577-2000.12.14-10.40.15--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

> -----Original Message-----

> From: Mark Fellhauer

> Sent: Wednesday, December 13, 2000 19:31 PM

[big snip]

> Is it wrong to design an APRS satellite with the two Kenwood  
> Radios in mind? Probably not. As Bob pointed out, so far  
> they're the only commecial integrated packages (Dual-Band  
> Radio/TNC/Display) available and quite popular.

Makr has made an excellent rebuttal here. Along this particular line,  
I would point out two things ...

- it is being done with money and efforts secured by Bob and his students

- it is not being done with money contributed by anyone else

Conclusion, Bob gets to call the shots ...

I would also remind you that we have lost MIR as a digipeater in the sky, ISS will eb available hopefully soon but who knows when, how often, how consistent. Yet the proof of concept even on the limited scale we had was overwhelmingly positive.

---

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### 363. [aprssig] Re: FS: 2 Unbuilt HamHUD II - 90% of all components

From: "Mike Yetsko" <myetsko@insydesw.com>  
Date: Thu, 14 Dec 2000 11:27:52 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124578-2000.12.14-10.40.35--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

David,

We may disagree on this, but I stand by what I said.

A plug for an ad on EBay is, in my opinion, SPAM. Someone is putting an ADDITIONAL ad out there to entice people from this group to participate in bidding up an item. The item is NOT for sale. The purpose of the ad is to bring in a larger audience to ANOTHER ad, which is the actual auction item on EBay. That makes it an ad for an ad.

It does not belong here.

I have no objection to someone posting items on EBay. That is there business.

I have no objection to people selling RELATED items here on this forum.

I even have no objection to OCCASIONAL items that are NOT related to this forum offered for sale here, as there are varied interest.

But I DO object to postings that are an AD for ANOTHER AD which is what EBay postings are.

ESPECIALLY when they are marked "For Sale".

If a subject line says FA or For Auction I generally won't even bother to open the item to read it.

Check the repeated subject line...

Mike

---

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### 364. [aprssig] Re: FS: 2 Unbuilt HamHUD II - 90% of all component s

From: "Horzepa, Stan" <Stan\_Horzepa@adc.com>  
Date: Thu, 14 Dec 2000 12:11:52 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124587-2000.12.14-12.24.01--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In the APRSSIG rules, there is NO ban on messages concerning the sale of items as long as those items are directly related to APRS.

End of subject!

73,

Stan, WA1LOU, APRSSIG administrator

---

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### 365. [aprssig] Re: Intellicast radar

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Thu, 14 Dec 2000 13:33:20 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124595-2000.12.14-13.46.45--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 08:48 PM 12/13/00, David VanHorn wrote:

>It used to work, but Intellicast took steps to make sure that nobody could  
>get the products without watching the commercials.

Yup, opened my big mouth before I tested it with Intellicast (last time I used it was a while ago on a computer I no longer own). They are now doing more than tumbling the URL's. But there's a quick way around it. The URL may not be "gettable" but you can still save the maps. The maps stay the same, so the tiepoints don't change. Just change the \*.url association file to a \*.geo file and change the first line from:

URL(tab)http://www.your.url.here

to

Filename(tab)filenamehere.gif

Go to the intellicast map you want and that you associated tiepoints for in the \*.geo file with. Right click on the map and save it as "filenamehere.gif" in the WinAPRS/images folder. Then go back into WinAPRS and go to Windows/Image Files and look for the drop-down filenamehere.gif. Click on it. It will open the Intellicast Map. I tested it and it works.

As long as you use the same map and save it with the same filename everytime it should work. Unfortunately WinAPRS doesn't seem to be able to handle the animated GIFs when set up as an image file. I think this could be addressed in the WinAPRS software.

It's a kludge, but it works, and I can swap images in about twenty seconds. I see no reason why this couldn't be automated with some kind of script.

The URL function does work quite well with weather pages that don't hide their real URL. That's why I use a local TV station's WX page.

73,

Mark  
KC7BXS

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### 366. [aprssig] OPAL Digipeating tests enabled.

From: Bob Bruninga <bruninga@usna.edu>  
Date: Thu, 14 Dec 2000 14:41:17 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124597-2000.12.14-13.54.21--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Satellite Experimenters,

Jim Cutler at Stanford has reconfigured OPAL for some UI digipeating tests. Take a crack at it and lemme know your experience. ANYone with a UHF FM rig and a 9600 baud TNC can do this... or anyone with a D7 or D700.

-----

00-38 or Opal has been made available for a test to see if it is viable as a UI packet digipeater to support real-time low-duty cycle communications (like APRS). Give it a try...

OBJECT #      26063  
DIGI CALL     KF6RFX  
BAUD RATE     9600 FSK  
FREQUENCY     437.100 both UP and DOWN. This means you must account for  
                 doppler in opposite directions during the pass:

| Meaning | XMIT    | RECEIVE |
|---------|---------|---------|
|         | 437.090 | 437.110 |
|         | 437.095 | 437.105 |

at start of pass

437.100 437.100 in middle of pass  
437.105 437.095  
437.110 437.090 at end of pass

It is silent unless it digipeats or once every 10 seconds when it sends a single telemetry packet. AND it is weak. I have copied it on my Kenwood D7 HT with a handheld 4 element beam.

If you are unfamiliar with UI digipeating, just set your TNC UNPROTO path to GRID VIA KF6RFX (where GRID is your gridsquare).

Then enter CONVERse mode and each time you hit a ENTER key, or type something ending with ENTER, you will transmit a UI packet.

If you see or hear yourself digipeated (with a \* by the KF6RFX), then it works. Lemme know.

de WB4APR, Bob

---

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### 367. [aprssig] Grounding Info

From: Ralph Milnes <milnes1@rcn.com>  
Date: Thu, 14 Dec 2000 14:42:59 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124598-2000.12.14-13.54.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Dale's posting prompted me to look at the PolyPhaser site.

Of particular value to me was the "Ham Radio Station Protection" article

<http://www.polyphaser.com/download/PTD1016.pdf>

in their technical info library:

<http://www.polyphaser.com/technical.htm>

73,

Ralph, KC2RLM

---

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### 368. [aprssig] Re: 9600bps radios, was Re: APRS Satellite Details

From: Bob Bruninga <bruninga@usna.edu>  
Date: Thu, 14 Dec 2000 15:26:12 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124602-2000.12.14-14.38.45--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> And of course, the reason I got involved in this discussion, was to point  
> out the fact that the Kenwood was not reflective of a state of the art  
> 9.6kbaud radio, nor should hams accept this. Just say NO and demand they  
> address performance issues..... Jeff King.....

I think you are wrong.

My original message gave these performance measurements for the D7 and D700. Decoding packets reliably at 0.2 microvolts is pretty darn good! Many radios just barely break squelch at these weak signals! 0.5 uv for reliable 9600 baud is darn good too! Show me a better one..

| RADIO | DATA RATE | SIGNAL | dBm     | Microvolts |
|-------|-----------|--------|---------|------------|
| D700  | 1200 baud | S0     | -120dBm | 0.22 uv    |
| D700  | 9600 baud | S3     | -113dBm | 0.5 uv     |
| D7A   | 1200 baud | S1     | -117dBm | 0.33 uv    |
| D7A   | 9600 baud | S5     | -110dBm | 0.7 uv     |

Instead of arguing your opinions, it would be better if you posted measurements for any other unmodified radio TNC combination that does better.

de WB4APR, Bob

---

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### 369. [aprssig] Re: 9600bps radios, was Re: APRS Satellite Details (fwd)

From: Bob Bruninga <bruninga@usna.edu>  
Date: Thu, 14 Dec 2000 15:41:23 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124604-2000.12.14-14.54.13--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Thu, 14 Dec 2000, Jeff King argues

> No, not at all, [but the commercial radio is] just a true 9600bps data  
> radio that works. Like I said, it depends on your goal. If you want to  
> impress the Klingon women at the next Star Trek convention, your better  
> off with the Kenwood. But if your goal was 9600bps data operation, from  
> what I have read here on the SIG, you'd be better off with the  
> TEKK/TNC2H combo.

Back to square one. That has never been the topic of discussion here on the APRSSIG. The discussion was only about using the D7/D700 radio as a handheld satellite digital communicator with APRS Satellites. It does and can-do that job very well. It does not do full speed 9600 baud BBS or network operations well. Continuing to harp on what it doesnt do (and what it NEVER CLAIMED TO DO) is growing old...

bob

---

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### 370. [aprssig] Re: 9600bps radios, was Re: APRS Satellite Details

From: Jeff King <jeff@aerodata.net>  
Date: Thu, 14 Dec 2000 16:02:46 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124606-2000.12.14-15.11.14--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bob Bruninga wrote:

>  
> > And of course, the reason I got involved in this discussion, was to point  
> > out the fact that the Kenwood was not reflective of a state of the art  
> > 9.6kbaud radio, nor should hams accept this. Just say NO and demand they  
> > address performance issues..... Jeff King.....  
>  
> I think you are wrong.

OK.

In any case, signal strength is not the only parameter used to evaluate 9.6kbaud radios. System throughput, which takes into account turnaround time as well as frame size is another metric you might want to consider. Its my understanding the Kenwood only does a ABAUD of 9600bps and the frame size is limited to 196bytes.

In any case, according to the published specs, the TEKK is better with regards to signal strength although I have my doubts here (about the TEKK).

> My original message gave these performance measurements for the D7 and  
> D700. Decoding packets reliably at 0.2 microvolts is pretty darn good!

Its very good. You only where being questioned in your comparisons of 1200 baud AFSK and 9600 baud FSK.

I have repeatedly asked you for the part number of the Kenwood 450/455khz IF

filter.... I suspect there may be a group delay issue here. Instead of beating this thread to death, wouldn't you rather see if you could make the Kenwood better? Lets move on.

> Instead of arguing your opinions, it would be better if you posted  
> measurements for any other unmodified radio TNC combination that does  
> better.

To my knowledge, the Kenwood is the only "unmodified radio TNC combination" that presently exists, the rest require you to hook a cable between the TNC.

-Jeff

---

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---

### 371. [aprssig] Re: 9600bps radios, was Re: APRS Satellite Details (fwd)

From: Jeff King <jeff@aerodata.net>  
Date: Thu, 14 Dec 2000 16:21:32 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124607-2000.12.14-15.28.43--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bob Bruninga wrote:

>  
> On Thu, 14 Dec 2000, Jeff King argues  
>  
> > No, not at all, [but the commercial radio is] just a true 9600bps data  
> > radio that works. Like I said, it depends on your goal. If you want to  
> > impress the Klingon women at the next Star Trek convention, your better  
> > off with the Kenwood. But if your goal was 9600bps data operation, from  
> > what I have read here on the SIG, you'd be better off with the  
> > TEKK/TNC2H combo.  
>

OK, just like I said to earlier, Its poor net etiquette to change quotes. You apparently added "[but the commercial radio is]", what exactly does that mean? That its not a ham radio? Well then tell me why Paccomm is selling it and it comes rocked at 441.05?? Anyways....

> Back to square one. That has never been the topic of discussion here on  
> the APRSSIG. The discussion was only about using the D7/D700 radio  
> as a handheld satellite digital communicator with APRS Satellites.

I followed up on Bill Vodells comments questioning the technical validity of some of your assumptions, none of which had anything directly to do with the satellites. In fact, I don't think it was even mentioned in the message. If you don't like it, that's fine. But go back and look and you'll see what I am saying is correct.

> It does not do full speed 9600 baud  
> BBS or network operations well.

Yes, from your tests I could see that. Again, I was only stating that it was not a state of the art 9600bps radio, and that your generalities didn't appear to take that in account.

> Continuing to harp on what it doesnt  
> do (and what it NEVER CLAIMED TO DO) is growing old...

I'm just responding to posts. What you call "Harping" I suspect is my disgust that hams can accept a piece of substandard equipment and call it "state of the art". But I already folded here, it's what the market demands so I am wrong. But it is a shame as there is so much we could do with 9600bps in terrestrial APRS. I guess it wasn't meant to be.

Now, could you do me a favor and look at your schematic or pop the radio open and give me the manf/part number of the IF filter? I'm very curious if the issue is group delay or there are other issues with the radio.

Thanks

Jeff



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### 372. [aprssig] Re: Kenwood rigs and bugs

From: "Henk de Groot" <henk.de.groot@hetnet.nl>  
Date: Thu, 14 Dec 2000 21:00:54 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124612-2000.12.14-16.06.42--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> No, Hen got it right -- if the Kenwood rig receives a packet longer  
> than 195 characters, it locks up tight as a drum.

Thats interesting! The only reports I had from regulair TH-D7A users was that it behaved just like my TH-D7E, that is that it just stopped decoding and transmitting beacons. On both units the HT can still by fully controlled, so when I press the TNC button I can bring the APRS function to life again. All the buttons still seem to respond.

When you say, "locks up tight as a drum" the you must be experiencing a different effect. Aparently there are different TH-D7A types too. Initially I thought this was conected to the TH-D7A lock up-problem that I found in the archives of the APRSSIG (links included below), but after the report from a TH-D7A user that it behaved the same as mine I thought it must be something else.

In your case, do you have to go as far as taking off the battery to get the thing to life again? This was the lockup that was described before. If that is true, you now know how to reproduce the problem :-). As you see below, the problem was known but how to reproduce the problem was not known.

Kind regards,

Henk.

For those of you who want to read more, here are the search results of a search I did a few months ago:

Search on [APRS HT](Partial search)

Result for query 'lock;D7'

9903/msg00007:  
<<http://www.tapr.org/tapr/list-archive/htaprs/9903/msg00007.html>>  
[htaprs] Lockups on TH-D7A  
9903/msg00108:  
<<http://www.tapr.org/tapr/list-archive/htaprs/9903/msg00108.html>>  
[htaprs] Wierd D7 Lockups  
9903/msg00109:  
<<http://www.tapr.org/tapr/list-archive/htaprs/9903/msg00109.html>>  
[htaprs] TH-D7 lockup in aprs  
9903/msg00110:  
<<http://www.tapr.org/tapr/list-archive/htaprs/9903/msg00110.html>>  
[htaprs] Re: TH-D7 lockup in aprs  
9903/msg00111:  
<<http://www.tapr.org/tapr/list-archive/htaprs/9903/msg00111.html>>  
[htaprs] RE: Wierd D7 Lockups  
9903/msg00112:  
<<http://www.tapr.org/tapr/list-archive/htaprs/9903/msg00112.html>>  
[htaprs] Re: D7 and speed  
9903/msg00121:  
<<http://www.tapr.org/tapr/list-archive/htaprs/9903/msg00121.html>>  
[htaprs] Re: TH-D7A APRS Question  
9904/msg00000:  
<<http://www.tapr.org/tapr/list-archive/htaprs/9904/msg00000.html>>  
[htaprs] D7 Lockups  
9904/msg00015:  
<<http://www.tapr.org/tapr/list-archive/htaprs/9904/msg00015.html>>  
[htaprs] Re: D7 Lockups  
9906/msg00268:  
<<http://www.tapr.org/tapr/list-archive/htaprs/9906/msg00268.html>>  
[htaprs] TH-D7a - No response to 'any' key press  
9909/msg00035:  
<<http://www.tapr.org/tapr/list-archive/htaprs/9909/msg00035.html>>  
[htaprs] St Pete Beach

9910/msg00198:  
<<http://www.tapr.org/tapr/list-archive/htaprs/9910/msg00198.html>>  
[htaprs] D7 Power Gremlins  
9911/msg00002:  
<<http://www.tapr.org/tapr/list-archive/htaprs/9911/msg00002.html>>  
[htaprs] Re: TH-D7A Problem  
0003/msg00280:  
<<http://www.tapr.org/tapr/list-archive/htaprs/0003/msg00280.html>>  
[htaprs] Re: THD7A Kenwood Bashing  
0005/msg00317:  
<<http://www.tapr.org/tapr/list-archive/htaprs/0005/msg00317.html>>  
[htaprs] Re: TH-D7 (G) Upgrade information  
0006/msg00198:  
<<http://www.tapr.org/tapr/list-archive/htaprs/0006/msg00198.html>>  
[htaprs] Re: Kenwood D7 (G) upgrade info

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Search op [APRS SIG] (Partial search)  
Result for query 'lock;D7'

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9812/msg00620:  
<<http://www.tapr.org/tapr/list-archive/aprssid/9812/msg00620.html>>  
TH-D7A Lockup  
9812/msg00623:  
<<http://www.tapr.org/tapr/list-archive/aprssid/9812/msg00623.html>>  
RE: [APRSSIG:31335] TH-D7A Lockup  
9812/msg00634:  
<<http://www.tapr.org/tapr/list-archive/aprssid/9812/msg00634.html>>  
Re: [APRSSIG:31338] TH-D7A Lockup  
9812/msg00638:  
<<http://www.tapr.org/tapr/list-archive/aprssid/9812/msg00638.html>>  
Re: [APRSSIG:31338] RE: TH-D7A Lockup  
9812/msg00639:  
<<http://www.tapr.org/tapr/list-archive/aprssid/9812/msg00639.html>>  
Re: [APRSSIG:31353] RE: TH-D7A Lockup  
9812/msg00694:  
<<http://www.tapr.org/tapr/list-archive/aprssid/9812/msg00694.html>>  
Re: [APRSSIG:31338] RE: TH-D7A Lockup  
9812/msg00695:  
<<http://www.tapr.org/tapr/list-archive/aprssid/9812/msg00695.html>>  
Re: [APRSSIG:31354] RE: TH-D7A Lockup  
9812/msg00707:  
<<http://www.tapr.org/tapr/list-archive/aprssid/9812/msg00707.html>>  
Re: [APRSSIG:31354] RE: TH-D7A Lockup  
9812/msg00748:  
<<http://www.tapr.org/tapr/list-archive/aprssid/9812/msg00748.html>>  
Re: [APRSSIG:31354] RE: TH-D7A Lockup  
9812/msg00750:  
<<http://www.tapr.org/tapr/list-archive/aprssid/9812/msg00750.html>>  
Re: [APRSSIG:31463] RE: TH-D7A Lockup  
9812/msg00767:  
<<http://www.tapr.org/tapr/list-archive/aprssid/9812/msg00767.html>>  
Re: [APRSSIG:31463] RE: TH-D7A Lockup  
9812/msg01077:  
<<http://www.tapr.org/tapr/list-archive/aprssid/9812/msg01077.html>>  
TH-D7 LOCKUP PROBLEMS!  
9812/msg01161:  
<<http://www.tapr.org/tapr/list-archive/aprssid/9812/msg01161.html>>  
Re: [APRSSIG:31792] TH-D7 LOCKUP PROBLEMS!  
9904/msg00012:  
<<http://www.tapr.org/tapr/list-archive/aprssid/9904/msg00012.html>>  
[aprssid] RE: [htaprs] D7 Lockups  
9904/msg00013:  
<<http://www.tapr.org/tapr/list-archive/aprssid/9904/msg00013.html>>  
[aprssid] RE: [htaprs] D7 Lockups  
9904/msg00016:  
<<http://www.tapr.org/tapr/list-archive/aprssid/9904/msg00016.html>>  
[aprssid] RE: [htaprs] RE: D7 Lockups  
9904/msg00402:  
<<http://www.tapr.org/tapr/list-archive/aprssid/9904/msg00402.html>>  
[aprssid] TH-D7A.  
9909/msg00075:  
<<http://www.tapr.org/tapr/list-archive/aprssid/9909/msg00075.html>>  
[aprssid] Re: [htaprs] St Pete Beach  
0004/msg00606:  
<<http://www.tapr.org/tapr/list-archive/aprssid/0004/msg00606.html>>  
[aprssid] Potential Widespread APRS Problem.Cont'd  
0006/msg00751:

<<http://www.tapr.org/tapr/list-archive/aprssid/0006/msg00751.html>>  
[aprssid] RE: [htaprs] Locked up D7A

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### 373. [aprssid] Re: Kenwood rigs and bugs

From: "Henk de Groot" <[henk.de.groot@hetnet.nl](mailto:henk.de.groot@hetnet.nl)>  
Date: Thu, 14 Dec 2000 20:34:28 +0100  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-124613-2000.12.14-16.06.59--lyris.aprssid@tapr.org@lists.tapr.org](mailto:LYR842-124613-2000.12.14-16.06.59--lyris.aprssid@tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Hello Mark,

----- Oorspronkelijk bericht -----

> OK, I was able to duplicate the bug with my TH-D7A(G) variant. It does  
> indeed stop receiving packets after sending a UI frame exceeding 195  
bytes.  
[...]  
> My HT will still transmit a beacon manually if you press the beacon button  
> after sending it a large UI frame, but the reception of all incoming  
> packets does cease. Cycling the power on the HT restores normal operation.

Thats good news, hopefully it is transmitting a correct frame... So they  
changed something in this respect. I think the stopping of the Beacon  
transmission is the most annoying since during the trip you don't want to  
check all the time if the unit is still working. When you want to view the  
display you attend the unit anyway. I used the following dirty trick to  
achieve more or less the same:

Our APRS frequency is at 144.800. I set the TH-D7 up with split frequency,  
have it receive on 144.810 and transmit on 144.800. This way the TH-D7  
doesn't receive any frame correctly anymore (too much off-frequency) so it  
does not run into this problem anymore. The 144.810 is however close enough  
to 144.800 to have a working carrier detection so it doesn't disturb other  
transmissions. That way the TH-D7 keeps transmitting beacons on the way. The  
TH-D7A(G) doesn't need this apparently which is already a huge advantage over  
my TH-D7E.

Thanks for the report!

Kind regards,

Henk.

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### 374. [aprssid] Re: 9600bps radios, was Re: APRS Satellite Details (fwd)

From: Bill Vodall <[wa7nwp@yahoo.com](mailto:wa7nwp@yahoo.com)>  
Date: Thu, 14 Dec 2000 13:58:08 -0800 (PST)  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-124614-2000.12.14-16.11.43--lyris.aprssid@tapr.org@lists.tapr.org](mailto:LYR842-124614-2000.12.14-16.11.43--lyris.aprssid@tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

--- Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
> The discussion was only about using the D7/D700 radio  
> as a handheld satellite digital communicator with APRS Satellites.  
> It  
> does and can-do that job very well. It does not do full speed 9600  
> baud  
> BBS or network operations well. Continuing to harp on what it doesn't  
> do (and what it NEVER CLAIMED TO DO) is growing old...

Kenwood advertises the D700 and D7 as 1200 and 9600 baud radio/TNC's.

There is GREAT potential for mobile, frequency agile, digital radios.  
Unfortunately, we the users, have not developed the opportunities and  
thus we don't get the equipment that will make it even cooler.

APRS is the shining example of opportunities realized. Bob's a master at making use of what's available and doing nifty cool things with it.

The problem is, that if we accept as state of the art the 5 CPS 1200 baud circuits or 9600 baud data radios with half second (exaggerated I know) TXdelays and 195 byte packet limits - we'll be stuck with one line email messages, folks upset that a couple out of the area wx messages are cluttering the network, and a half dozen posits per day. The alternative, with better networks and equipment, is as if everybody were on the Internet servers. Full time. Web browsers, email, even APRSdos (etc) software updates. Via Amateur RF. There is no bandwidth problem - it's a utilization problem...

Getting there isn't easy. And might not even be worth the effort. But it's certainly a goal worth discussing and striving for.

Bill - WA7NWP  
Packet is dead, long live packet... (see Netsig for details)

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Yahoo! Shopping - Thousands of Stores. Millions of Products.  
<http://shopping.yahoo.com/>

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### 375. [aprssig] Re: [ Jeff King ] Re: 9600bps radios, was Re: APRS Satellite Details (fwd)

From: "Gregg G. Wonderly" <gregg@skymaster.c2-tech.com>  
Date: Thu, 14 Dec 2000 16:00:34 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124615-2000.12.14-16.15.13--lyris.aprssig#tapr.org@lists.tapr.org>  
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>I'm just responding to posts. What you call "Harping" I suspect is my  
>disgust that hams can accept a piece of substandard equipment and call it  
>"state of the art". But I already folded here, it's what the market demands  
>so I am wrong. But it is a shame as there is so much we could do  
>with 9600bps in terrestrial APRS. I guess it wasn't meant to be.

At issue is not some much that it is what people want. For me it is as close as I can get to what I want that is currently available. I'd prefer full blown 9600baud packet capabilities. I'd also prefer to have the ability to control the radio with a separate serial bus so that I could command freq changes without putting random characters out the TNC's serial port that I have to be careful to ignore.

Sweeping market analysis using "because people buy it" is not very realistic until you've done a study of at least 10% of the buying population using a cross section of ages, uses and education levels. We have appliance users amongst us that would never use the radio for something that a button or menu in the radio firmware could not make it do. There are others that are tinkers that would load some software onto their PC, and attach a serial cable to the radio to see it do something different.

There are still others that are software inclined that will write simple utilities that they use themselves to make the radio perform a particular task for them (timed doppler shifting for example). Still others are software engineers or at least software trained and will write useful applications that are shared with us. Finally, there are the hardware and RF guys that fully understand how and why the radio's hardware works (or doesn't) and what it would take to remedy the situation and what it would take to build a radio that would be much better than the THD7 for some applications that you might talk to them about. Clearly the HAM radio companies are not asking the users about which mode or which application the radio needs better support for. Software defined radios which are user upgradable are not advertised anywhere I've looked.

As I've said here before Java (and some other dynamic languages, but I think java has the most opportunities via the ajile processor) can provide the ability for users to load software that only controls the desired portions of the radio that would allow me to use the VFO, the PTT, the TNC and other major hardware components in controlled environments that would make for a truly

awesome combination of capabilities and software upgrades!

If a company manages to find a team of 7 people that included an RF engineer, an electronics engineer, an audio electronics engineer, a couple of Java software engineers, and a handful of wannabe users of this new radio, that team could build an awesome radio that would be about \$700.00 in price range, be in a package slightly larger than the THD7, and include cross band simultaneous operations, APRS, an ethernet port two TNCs and well....

I'm waiting...

-----  
gregg@c2-tech.com (C2 Technologies Inc)

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### 376. [aprssig] SCSI Port

From: Zachary Michael <kb9uqq\_2000@yahoo.com>  
Date: Thu, 14 Dec 2000 17:10:58 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124616-2000.12.14-16.21.46--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi Gang,  
Is there an easy way to make a SCSI port act as a second serial port?  
My laptop has a just plain serial port and a SCSI port. It would be great to get it to have two serial ports!

--  
Thanks and 73's,  
Zachary Grant Michael, KB9UQQ,  
KB9UQQ-1, KB9UQQ-9, KB9UQQ-10  
Hartford City, Blackford County, Indiana, EN70  
E-Mail: kb9uqq@tawg.org  
TAWG Coordinator  
<http://www.tawg.org/>  
Zach's Homepage  
<http://www.kb9uqq.net/>  
Zach's APRS Webpages  
<http://www.aprsinindiana.cjb.net/>  
Find Zach... Wherever he's at.  
<http://www.findu.com/find.cgi/kb9uqq-9>  
Zach's Digi  
<http://www.findu.com/find.cgi/kb9uqq-10>  
APRS Frequency: 144.390 MHz Simplex  
SSTV Frequency: 146.460 MHz Simplex

---  
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---

### 377. [aprssig] Re: FS: 2 Unbuilt HamHUD II - 90% of all components

From: "Hershel Saylor" <saylor@ori.net>  
Date: Thu, 14 Dec 2000 17:17:48 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124618-2000.12.14-16.32.12--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

We are darn near next door to each other on the internet scale. (I am in Greenwood.)

I took my bike to the Flatrock 5 mile run last year. Found out after the run was over that I had not been beaconing because I had a broken connection on the plug for the PTT connection.

I am going to try to have my equipment more bullet proof this year.

Hershel

> Are you relatively local to me (Muncie)?

>  
> The HH is a nice gadget. Especially with the corner-pegging.  
>

---

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### 378. [aprssig] continuous bickering

From: "Gene Reif" <greif@home.com>  
Date: Thu, 14 Dec 2000 16:28:46  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124619-2000.12.14-16.41.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Seems to me the past few days, we have an ongoing argument, about cars, fruits, and who knows what all, isn't this sposed to be a place where we can come and get USEFUL, and I emphasize useful, information, like for instance, running cables thru the wall, and assorted APRS info. which is by the way very good here. what I'm saying Y'all, is It's Christmas, Lets stop the bickering, who cares really whether Kenwoods beat Icoms, or such.

I subscribed to this because I am about as dumb as a box of rocks, re: APRS, all this arguing is not conducive to learning, I learn by reading what works for others. thanx for a good place to find information, now Kiss and make up. Metty Christmass Y'all from the Frozen North! Gene VE6WSO, OH I ALSO AM A US HAM, N6WSO!

---

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---

### 379. [aprssig] Re: 9600bps radios, was Re: APRS Satellite Details

From: Bob Bruninga <bruninga@usna.edu>  
Date: Thu, 14 Dec 2000 17:36:18 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124620-2000.12.14-16.48.35--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Thu, 14 Dec 2000, Jeff King wrote:

> > And of course, the reason I got involved in this discussion, was to point  
> > out the fact that the Kenwood was not reflective of a state of the art  
> > 9.6kbaud radio... Jeff King.....

I dissagreed and provided measured values of .2/.5 uv for 12/9600 Baud.

> OK... In any case, signal strength is not the only parameter used to  
> evaluate 9.6kbaud radios. System throughput,... turnaround times...  
> are other metrics you might want to consider....

Not at all. (Remember the topic is an APRS Satellite for HT's!)

1) "Throughput" to a 3 line by 12 character display is a worthless metric.  
2) APRS uses NO level-2 ACKS, thus turn-around time is almost worthless.

> In any case, according to the published specs, the TEKK is better with  
> regards to signal strength...

How about sharing them with us? My original message gave these performance measurements for the D7 and D700. Decoding packets reliably at 0.2 microvolts is pretty darn good!

> Its very good. You only where being questioned in your comparisons of 1200  
> baud AFSK and 9600 baud FSK....I have repeatedly asked you for the part  
> number of the Kenwood 450/455khz IF filter....

How am I supposed to know that? I'm not doing surgery on my HT for a tiny surface mount part I doubt I would recognize. It would be better if you posted measurements for any other unmodified radio TNC combination...

> To my knowledge, the Kenwood is the only "unmodified radio TNC combination"  
> that presently exists.

Any combination will do. The radio is useless without a TNC. You

mentioned the TEKK radio with a TNC... Tell us what is the signal sensitivity in dBm or microvolts for reliable operation at 9600 baud. Is it better or worse than the 0.5 uv I measured for the Kenwoods?

de WB4APR@amsat.org, Bob

---

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---

### 380. [aprssig] Re: 9600bps radios, was Re: APRS Satellite Details (fwd)

From: Bob Bruninga <bruninga@usna.edu>  
Date: Thu, 14 Dec 2000 17:56:04 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124622-2000.12.14-17.08.35--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Thu, 14 Dec 2000, Jeff King wrote:

> > No, not at all, [but the commercial radio is] just a true 9600bps data  
> > radio that works. Like I said, it depends on your goal. If you want to  
> > impress the Klingon women at the next Star Trek convention, your better  
> > off with the Kenwood. But if your goal was 9600bps data operation,  
> > ... you'd be better off with the TEKK/TNC2H combo.

> OK..., Its poor net etiquette to change quotes. You apparently added  
> "[but the commercial radio is]", what exactly does that mean?

It replaces your word "it's".. which was referring to Mark's coment about taking a "commercial radio and massaging it up to do 9600 baud". Rather than quote back an entire paragraph to show what the "it's" was referring to, I inserted the refererence directly...

> > Back to square one. That has never been the topic of discussion here on  
> > the APRSSIG. The discussion was only about using the D7/D700 radio  
> > as a handheld satellite digital communicator with APRS Satellites.

> ... In fact, I don't think it was even mentioned in the message.

Geez... this is the APRS SIG where we talk about APRS, and using the Kenwood APRS Handheld... not, in general, 9600 baud networks and maximizing bulk data throughput on point-to-point links with packet sizes of 256 bytes.. for which the radio was NEVER designed.

> Yes, from your tests I could see that. Again, I was only stating that it was  
> not a state of the art 9600bps radio, and that your generalities didn't  
> appear to take that in account.

The weren't generalities, they were ACTUAL measurements to the nearest dB!

> > Continuing to harp on what it doesnt  
> > do (and what it NEVER CLAIMED TO DO) is growing old...  
>

> What you call "Harping" I suspect is my disgust that hams can accept a  
> piece of substandard equipment and call it "state of the art". But I  
> already folded here, it's what the market demands so I am wrong. But it  
> is a shame as there is so much we could do with 9600bps in terrestrial  
> APRS. I guess it wasn't meant to be.

Apparently so. We have had 9600 baud TNC's for over 18 years, yet in the USA it has NEVER caught on until Kenwood introduced the D7 and D700.

Bob

---

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---

### 381. [aprssig] Re: 9600bps radios, was Re: APRS Satellite Details

From: Jeff King <jeff@aerodata.net>  
Date: Thu, 14 Dec 2000 18:03:02 -0500

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124623-2000.12.14-17.12.00--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bob:

Your right, I am wrong. The Kenwood is the best 9600bps radio on the market that does 196byte frames and has 50+ms turnaround with a default TXD of 500ms.

Please accept my apologies.

-Jeff

P.S.

Bob Bruninga wrote:

>  
> On Thu, 14 Dec 2000, Jeff King wrote:  
>  
> > In any case, according to the published specs, the TEKK is better with  
> > regards to signal strength...  
>  
> How about sharing them with us?

I posted the link once already but here it is again:

<http://www.multicom2way.com/tekk-ks960.htm>

BTW, surface mount technology is not that hard to work on, even 0603 packages can be delt with. Pop the radio open and take a look or just read the schematic and let me know the part number.

---

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---

## 382. [aprssig] USCG looking for a few Good 'Tracking' System

From: "Clayton H. Owen" <aa3jy@erols.com>  
Date: Thu, 14 Dec 2000 18:29:31 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: aprsplus@unix.k8sn.org  
Message-ID: <LYR842-124632-2000.12.14-17.42.57--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The U.S. Coast Guard communications network has awarded contracts to three system developers in its first phase of the National Distress and Response System Modernization Project. This System must be able to pin down the source of a distress call (or hoax call) to a 25-square-mile area with 96 percent accuracy and be able to send and receive messages simultaneously. The System must also have DSC (digital selective calling) with 96 percent accuracy and DSC capability on Marine VHF channel 70, so an onboard Marine VHF radio with DSC connected to a GPS will give the Coast Guard both identification of the vessel and its precise location without verbal confirmation. The new system must also permit the Coast Guard to work two distress cases at once and to keep track of the location of rescue vessels, just as local 911 telephone emergency systems currently track ambulances and police cars.

The winning design will not be selected until November 2001, and the first equipment is not scheduled for installation until the middle of 2002. For further information, log on to: [www.uscg.mil/hq/g-a/ndrsmp/](http://www.uscg.mil/hq/g-a/ndrsmp/)

---

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## 383. [aprssig] Re: continuous bickering

From: Qrpvhf@aol.com  
Date: Thu, 14 Dec 2000 18:42:56 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124633-2000.12.14-17.55.44--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In a message dated 12/14/00 5:54:14 PM Eastern Standard Time, grreif@home.com writes:



100% agreement!!!

> I subscribed to this because I am about as dumb as a box of rocks, re:  
> APRS, all this arguing is not conducive to learning, I learn by reading  
> what works for others. thanx for a good place to find information, now  
> Kiss and make up. Merry Christmas

Jacob Tennant,K8JWT

---

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### 384. [aprssig] Re: 9600bps radios, was Re: APRS Satellite Details

From: Bob Bruninga <bruninga@usna.edu>  
Date: Thu, 14 Dec 2000 19:29:01 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124635-2000.12.14-18.40.54--lyris.aprssig#tapr.org@lists.tapr.org>  
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So just for giggles, I computed the comm range of these radios assuming  
5 watts and one was using a 0 dB gain antenna and the other a - 6dB rubber  
duck. As you can see, this is quite adequate for satellite at 500 mile  
altitude.

| > RADIO | > DATA RATE | > SIGNAL dBm | > Microvolts | > Comm Range* |
|---------|-------------|--------------|--------------|---------------|
| > ----- | > -----     | > -----      | > -----      | > -----       |
| > D700  | > 1200 baud | > 50 -120dBm | > 0.22 uv    | > 3600 miles  |
| > D700  | > 9600 baud | > 53 -113dBm | > 0.5 uv     | > 1650 miles  |
| >       |             |              |              |               |
| > D7A   | > 1200 baud | > 51 -117dBm | > 0.33 uv    | > 2550 miles  |
| > D7A   | > 9600 baud | > 55 -110dBm | > 0.7 uv     | > 1150 miles  |

\* Using a 5w transmitter with 0 dB omni antenna and a - 6dB loss  
rubber duck for the receiver.

Thus when the satellite is above about 30 degrees, our satellite design  
should be able to hit an HT in your pocket with an additional 12 dB  
of foliage or whatever at 1200 baud on 2 meters. The link equation takes  
9.5 dB greater signal to use UHF, that is why we will only use 2m for the  
HT's if we can. The mobiles can use UHF....

Bob

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### 385. [aprssig] Re: 9600bps radios, was Re: APRS Satellite Details

From: Bob Bruninga <bruninga@usna.edu>  
Date: Thu, 14 Dec 2000 19:35:25 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124637-2000.12.14-18.47.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Thu, 14 Dec 2000, Jeff King wrote:

> Your right, I am wrong. The Kenwood is the best 9600bps radio on the  
> market that does 196byte frames and has 50+ms turnaround with a default  
> TXD of 500ms....

We still dont know about the ALINCO DR-135. It is the second entry into  
the integrated radio/TNC market. I'm dying to see some performance data  
on its built in 1200 and 9600 baud TNC. Hope someone can do some  
measurements between a pair of them soon...

de WB4APR, Bob

---

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### 386. [aprssig] Re: Re: 9600bps radios, was Re: APRS Satellite Details

From: K3for@aol.com  
Date: Thu, 14 Dec 2000 21:46:59 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: aprssig@lists.tapr.org  
Message-ID: <LYR842-124648-2000.12.14-21.00.01--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

jeff@aerodata.net writes:

> Pop the radio open and take a look or just read the  
> schematic and let me know the part number.

Jeff, thanks for conceding. Re the filter specs/components, you don't have a D7 yourself?

I was sure you did, to be the well-rounded expert, second-guessing Bob as much as you do ;-) )

73's

---

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### 387. [aprssig] GEMINIDS Meteor Shower REGISTRATION PAGE

From: Richard Parry <rparry@qualcomm.com>  
Date: Thu, 14 Dec 2000 19:34:53 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124650-2000.12.14-21.50.21--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I fixed the problem with the inability to register for the December Geminids if you registered for the November Leonids. Apologies for any inconvenience. Please let me know if there are any problems, thanks. Below is the text of the original announcement.

#### GEMINIDS METEOR SHOWER REGISTRATION PAGE NOW OPEN

Web Page registration is now available for those who will be participating in the upcoming December Geminids Meteor Shower event. The purpose of registering is to provide a real-time list of participants. This should expedite communication and increase the chances of success. It should take about 1 minute to complete. Click on the URL below and then click on REGISTER.

<http://w9if.net/cgi-bin/beaconet/main.pl>

I got interested in this facet of amateur radio after reading the article by W2EV in the Nov 99 issue of QST. I quickly realized that my chances of success could be increased if I knew who was participating so I knew where to point the beam. It was out of this need that I developed this registration page. I hope that you find it useful. For those interested in more information, the Nov 1999 QST article by W2EV and the Nov 2000 issue of QST (page 28 and 83) may be useful.

Rich Parry, W9IF

---

### 388. [aprssig] Re: 9600bps radios

From: Jeff King <jeff@aerodata.net>  
Date: Thu, 14 Dec 2000 22:47:54 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124651-2000.12.14-21.56.30--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

K3for@aol.com wrote:

>  
> jeff@aerodata.net writes:  
>  
> > Pop the radio open and take a look or just read the  
> > schematic and let me know the part number.  
>  
> Jeff, thanks for conceding. Re the filter specs/components, you don't have a  
> D7 yourself?

No, I don't have a D7. I have some D4-10(s), some TEKK radios and have modified a number of conventional radios to 9600bps. The D7 in its present state, in particular with the small frame size, wouldn't do anything for me as a 9600bps radio. Hence its not yet on my buy list. That's not to say it wouldn't do something for you however. The specific thread was about 9600bps radios.

Do you have a D7? How about giving me the part number of the filter.... what I offered to do was in good spirit and I think it would benefit any D7 owner that was interested in improving the performance, assuming the filter could be replaced with one of better group delay characteristics. If you can't read the schematic, scan it in and I can look at it for you.

> I was sure you did, to be the well-rounded expert, second-guessing Bob as  
> much as you do ;-)

People really mis-use the ":-)" face..... I don't believe what you said was in good spirit, nor did I take it that way. Using the ":-)" is a cop out. If you want to insult someone, just do it, OK? In particular when you do it in a public message, it just means nothing.

OK, since you seem to want to carry this thing on, \_exactly\_ how was I second guessing Bob? The only thing I would ask is your actually read my e-mails as well as the specific ones I was responding to.

How far we have fallen....

-Jeff

---

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### 389. [aprssig] Re: 9600bps radios - DR-135

From: Jeff Reinhardt <jreinh@ix.netcom.com>  
Date: Thu, 14 Dec 2000 20:10:13 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124653-2000.12.14-22.22.10--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I understand it will be reviewed in the February 2000 QST, BER included.  
Jeff AA6JR  
=====

Bob Bruninga wrote:

>  
> On Thu, 14 Dec 2000, Jeff King wrote:  
>  
> > Your right, I am wrong. The Kenwood is the best 9600bps radio on the  
> > market that does 196byte frames and has 50+ms turnaround with a default  
> > TXD of 500ms....  
>  
> We still dont know about the ALINCO DR-135. It is the second entry into  
> the integrated radio/TNC market. I'm dying to see some performance data  
> on its built in 1200 and 9600 baud TNC. Hope someone can do some  
> measurements between a pair of them soon...  
>  
> de WB4APR, Bob  
>  
> ---  
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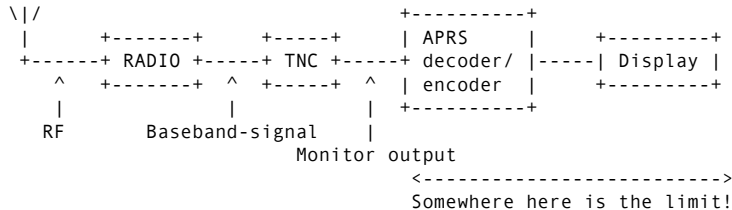
### 390. [aprssig] Re: 9600bps radios, was Re: APRS Satellite Details

From: <henk.de.groot@hetnet.nl>  
Date: Fri, 15 Dec 2000 11:06:37 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124702-2000.12.15-04.19.12--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

"Jeff King" <jeff@aerodata.net> wrote:  
 > Your right, I am wrong. The Kenwood is the best 9600bps radio on the  
 > market that does 196byte frames and has 50+ms turnaround with a default  
 > TXD of 500ms.  
 >  
 > Please accept my apologies.

I think there is some confusion. the 195 bytes I reported before is not the limit of the build in TNC, its the post-processing of APRS messages. This 195 bytes is on the TNC formatted monitor data, which means that it already passed the TNC. When you use the TNC in KISS mode or normal terminal mode it can take 256 byte frames.

(view with fixed space font, otherwise its a mess...)



So when you use the TH-D7 for regular packet, or connect an APRS program, this limit does not exists as far as I know. It is the APRS decoder/encoder that seems to give up, not the TNC.

There are problems left for 9600 baud with KISS. When you receive a number of I frames of one transmission only the first one is recieved correctly. After that the CPU is aparently so busy to serialize the data that subsequent frames are lost. On 1200 baud I did compressed reversed forwarding to a FBB BBS without any problem (using KISS) using I frames with a 240 byte payload.

Bob states that the TH-D7 was never designed for normal packet. This cannot be true. The TH-D7E version 2.0 has build in support for DAMA. That is only usefull for connection oriented links, so the only reason is that it was meant for normal packet too. It is only the practical realization which limits its use to APRS. The sensitivity is maybe good as Bob measured, the post processing inside is the problem. Single UI frame reception as used for the satelites is fine as long as it doesn't overdrive the internal APRS decoder/encoder.

When I bought my TH-D7E I knew it would not perform for normal packet. I was only disapointed when problems also showed up in APRS standalone use. Still I would buy a new one immediately if I did not have one already. Dispite the problems it is a great device for what it can do! Of course you need to be aware of the bugs to be able to bypass them and not make the mistake to buy the unit for tasks it cannot perform (thats way a lot of europeans are disapointed since they expected to do regular packet with this device, as Kenwood advertizes). I think it is a very usefull APRS device, although it could have been a even more usefull device. I also recommend to report the problems to Kenwood so the device may get even more usefull in the future.

Kind regards,

Henk.

---

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### 391. [aprssig] Re: 9600bps radios, was Re: APRS Satellite Details

From: Roger Barker <roger@peaksys.co.uk>  
 Date: Fri, 15 Dec 2000 11:01:21 +0000  
 To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
 Message-ID: <LYR842-124706-2000.12.15-05.13.43--lyris.aprssig@tapr.org@lists.tapr.org>  
 Rendered body type: text/plain

In article <LYR1643-124702-2000.12.15-04.19.12--roger#peaksys.co.uk@list  
 s.tapr.org>, henk.de.groot@hetnet.nl writes  
 >(thats way a lot of europeans are disapointed since they expected to do  
 >regular packet with this device, as Kenwood advertizes)

That is the important point. The TH-D7E has not been marketed as an APRS-only rig, it has been sold as being suitable for "normal" packet use. (It is important to appreciate that in most parts of Europe there is still a healthy packet network, and there are far more hams who use packet mailboxes than use APRS.)

One other fault I found with the original TH-D7E that hasn't yet been mentioned - It's flow control was very poor. If you tried to upload a large message to a mailbox in terminal mode, when the TH-D7E's input buffer became full, it would send XOFF, but it would also drop a couple

of characters. The only fix was to make sure that if your COM port had a buffered UART (standard on all modern PCs) you turned off the transmit FIFO. Perhaps this has been fixed in the updated versions?

(The D700 also has a hardware flow control problem, but I don't want to complain too much. ;-)

--

Roger Barker, G4IDE - roger@peaksys.co.uk  
For UI-View go to - <http://www.packetradio.org.uk>  
For WinPack go to - <http://www.peaksys.co.uk>

---

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### 392. [aprssig] D700 mic functions Help!

From: "Don Rankins" <n2zwo@hotmail.com>  
Date: Fri, 15 Dec 2000 13:17:39  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124711-2000.12.15-07.30.13--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Thanx for reading...My D700 microphone's MR,Call,VFO, and up & down buttons have quit functioning. I've tried a full reset..still I can't get them to work. It does not seem to be in a lock mode. All functions well from the buttons on the display...anyone have any ideas for a fix??

Don Rankins N2ZWO

Herkimer County ARES/RACES EC/R0  
ASM for Herkimer, Otsego, and Delaware Counties

check here to see where I am while on the road:  
<http://map.findu.com/n2zwo-9>

---

Get your FREE download of MSN Explorer at <http://explorer.msn.com>

---

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---

### 393. [aprssig] RE: continuous bickering

From: David Locke <locked@intplsrv.net>  
Date: Fri, 15 Dec 2000 08:54:07 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124721-2000.12.15-09.09.29--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Here Here! I agree. That's why I stay away from religion and politics on the computer and on the radio!

I still don't see how to use a bitmap as an APRS map... Where do you find these X, Y coordinates to associate with the UTM coordinates?

-----Original Message-----

From: Gene Reif [SMTP:grreif@home.com]  
Sent: Friday, December 15, 2000 8:24 AM  
To: TAPR APRS Special Interest Group  
Subject: [aprssig] continuous bickering

Seems to me the past few days, we have an ongoing argument, about cars, fruits, and who knows what all, isn't this sposed to be a place where we can come and get USEFUL, and I emphasize useful, information, like for instance, running cables thru the wall, and assorted APRS info. which is by the way very good here. what I'm saying Y'all, is It's Christmas, Lets stop the bickering, who cares really whether Kenwoods beat Icoms, or such.

I subscribed to this because I am about as dumb as a box of rocks, re: APRS, all this arguing is not conducive to learning, I learn by reading what works for others. thanx for a good place to find information, now Kiss and make up. Metty Christmass Y'all from the Frozen North! Gene VE6WSO, OH I ALSO AM A  
US HAM, N6WSO!

---

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### 394. [aprssid] Re: 9600bps radios, was Re: APRS Satellite Details

From: Bob Bruninga <bruninga@usna.edu>  
Date: Fri, 15 Dec 2000 10:00:13 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssid@lists.tapr.org>  
Message-ID: <LYR842-124722-2000.12.15-09.12.58--lyris.aprssid@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Fri, 15 Dec 2000, Roger Barker wrote:

> That is the important point. The TH-D7E has not been marketed as an  
> APRS-only rig, it has been sold as being suitable for "normal" packet  
> use...

I think you should add "... in Europe" to that statement.

I think we need to differentiate \*clearly\* here the international aspects of this issue. It is APPLES and ORANGES. The D7A and packet usage in the USA is totally different from the D7E and packet usage in Europe. Many users on this SIG might not appreciate the great difference that makes.

In the USA, the THD7 has never been advertised for "normal" packet. The ads always showed that it was an APRS radio and in the first bullet under "Features" it always said "1 packet, 1 frame, 256 byte" compliant with the AX.25 protocol. Yes, you can use it for "normal" packet, but it has never been sold or advertised for that application.

I DO AGREE with your assessment in Europe and the D7E where I think Kenwood stumbled into a problem:

- 1) In 1998 APRS was virtually unheard of in Europe
- 2) almost ALL packet activity is 9600 baud
- 3) Most packet activity required DAMA...

Therefore marketing it as a 1200 baud APRS radio in Europe was fruitless, so their marketing people probably changed the focus of their ads? When Kenwood discovered how much different Europe was than the USA, they recalled ALL D7E UNITS and tried to fix it for DAMA, etc.. But with a "1 packet, 1 frame, 256 byte" hardware internal TNC chip, it can never perform fluently on a 100% dutycycle 9600 baud "normal" packet as is used in Europe.

So I hope that to be fair, all postings about radio shortcomings will always clearly identify the radio type THD7E or THD7A and include the Network environment in which the shortcoming is observed.

I have stuck my foot in my mouth many times when I say things that apply to the USA environemnt only and then have the Europeans on this SIG come back and say it is not that way in Europe. SO with today's Internet and WORLDWIDE reach, we must all be careful to recognize that the world is different.

Conversly, I HOPE that we make APRS applications the SAME worldwide or we will really kill ourselves. We must be ever vigilant of the fact that Packet and Ham radio usage in Europe and the USA are different and so we are coming from quite different backgrounds as we try to make APRS global...

de WB4APR, Bob

---

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---

### 395. [aprssid] Re: 9600bps radios, was Re: APRS Satellite Details

From: Roger Barker <roger@peaksys.co.uk>  
Date: Fri, 15 Dec 2000 15:25:43 +0000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124723-2000.12.15-09.38.49--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In article <LYR1643-124722-2000.12.15-09.12.58--roger#peaksys.co.uk@lists.tapr.org>, Bob Bruninga <bruninga@usna.edu> writes

>On Fri, 15 Dec 2000, Roger Barker wrote:

>

>> That is the important point. The TH-D7E has not been marketed as an  
>> APRS-only rig, it has been sold as being suitable for "normal" packet  
>> use...

>

>I think you should add "... in Europe" to that statement.

I did put the 'E' on the TH-D7...

--

Roger Barker, G4IDE - roger@peaksys.co.uk  
For UI-View go to - <http://www.packetradio.org.uk>  
For WinPack go to - <http://www.peaksys.co.uk>

---

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---

### 396. [aprssig] Unusual traffic

From: David VanHorn <dvanhorn@cedar.net>  
Date: Fri, 15 Dec 2000 12:52:56 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124756-2000.12.15-12.07.22--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Just watching the mail here, I ran across an exchange in the APRS messages between M1DTA and M0NIS, M1CXC, and M1DOZ-7

Are these actually ham stations?

They show up in a web search under <http://www.canaprs.net/locate/m1dta>

I'm confused. I thought the Canadians were all VE/VK something or other.

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

---

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---

### 397. [aprssig] RE: Unusual traffic

From: "Ciemon G0TRT" <g0trtlists@btinternet.com>  
Date: Fri, 15 Dec 2000 18:11:34 -0000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124757-2000.12.15-12.24.01--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Yes Dave they are.

When the G callsigns ran out over here in the UK, we started using M. I guess you're seeing them thru an IGATE

73.....Ciemon Dunville G0TRT Sysop MB7UPG IGate

ICQ - 6263612

homepage - [www.aprsuk.net](http://www.aprsuk.net)

Where is Ciemon's home station?

<http://www.findu.com/cgi-bin/find.cgi?mb7upg>

> -----Original Message-----

> From: bounce-aprssi-21065@lists.tapr.org

> [mailto:bounce-aprssi-21065@lists.tapr.org] On Behalf Of David VanHorn

> Sent: 15 December 2000 17:53

> To: TAPR APRS Special Interest Group

> Subject: [aprssig] Unusual traffic

>  
>  
>  
> Just watching the mail here, I ran across an exchange in the APRS messages  
> between M1DTA and M0NIS, M1CXC, and M1DOZ-7  
>  
> Are these actually ham stations?  
>  
> They show up in a web search under <http://www.canaprs.net/locate/m1dta>  
>  
> I'm confused. I thought the Canadians were all VE/VK something or other.  
>  
>  
> --  
> Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>  
>  
>  
>  
> ---  
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>  
>

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### 398. [aprssig] Re: Unusual traffic

From: Roger Barker <roger@peaksys.co.uk>  
Date: Fri, 15 Dec 2000 18:34:32 +0000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124758-2000.12.15-12.47.02--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In article <LYR1643-124756-2000.12.15-12.07.22--roger#peaksys.co.uk@lists.tapr.org>, David VanHorn <dvanhorn@cedar.net> writes

>  
>Just watching the mail here, I ran across an exchange in the APRS messages  
>between M1DTA and M0NIS, M1CXC, and M1DOZ-7  
>  
>Are these actually ham stations?  
>  
>They show up in a web search under <http://www.canaprs.net/locate/m1dta>  
>  
>I'm confused. I thought the Canadians were all VE/VK something or other.

They're UK callsigns. All quite genuine. The map shown by that link is an area near Chelmsford in the south-east of the UK.

--  
Roger Barker, G4IDE - roger@peaksys.co.uk  
For UI-View go to - <http://www.packetradio.org.uk>  
For WinPack go to - <http://www.peaksys.co.uk>

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### 399. [aprssig] Re: Unusual traffic

From: Eric Cuthbert <cuthbert@sympatico.ca>  
Date: Fri, 15 Dec 2000 13:53:50 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124759-2000.12.15-13.05.25--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Ah yes Grasshopper, you have much to learn. Canadian call signs VE, VA, VY, VO etc. UK call signs G0 etc... as well as M1, M0 etc.... When you look at the CanAPRS site <http://www.canaprs.net/locate/m1dta> you will notice that it is 2351 miles East of St. Johns Newfoundland.

I know Canada is a bigger land mass than the USA but not that big!!

--73-- Eric/va3ewc



David VanHorn wrote:  
>  
> Just watching the mail here, I ran across an exchange in the APRS messages  
> between M1DTA and M0NIS, M1CXC, and M1DOZ-7  
>  
> Are these actually ham stations?  
>  
> They show up in a web search under <http://www.canaprs.net/locate/m1dta>  
>  
> I'm confused. I thought the Canadians were all VE/VK something or other.  
>  
> --  
> Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>  
>  
> ---  
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> Questions regarding the SIG go to the SIG administrator: [wallou@tapr.org](mailto:wallou@tapr.org)  
  
--  
Where's Eric ?? <http://map.findu.com/va3ewc-9>  
  
---  
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#### 400. [aprssig] Re: 9600bps radios, was Re: APRS Satellite Details

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Fri, 15 Dec 2000 15:21:17 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-124774-2000.12.15-14.33.51--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Fri, 15 Dec 2000, Roger Barker wrote:

> >I think you should add "... in Europe" to that statement.  
>  
> I did put the 'E' on the TH-D7...

Right, yes, your message was correct. I was not speaking directly to you, but all of us (and I am very guilty of this) sometimes fail to clarify the difference a letter makes and more importantly where the device is used and on what networks and what environment.

I will try to always use "D7A in the USA" when talking about things that are different than with the "D7E in Europe". And I am glad you guys over there remind us when we blur the difference.

Its interesting to note that One advantage of the D7E anywhere is that its UHF filters are optimized for 430-440 and so it is about 3 dB better on the satellites at 435 MHz than the D7A.

Thanks for clarifying the differences.

de WB4APR, Bob

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#### 401. [aprssig] Re: Unusual traffic

From: "The Germino's" <[mgermino@inreach.com](mailto:mgermino@inreach.com)>  
Date: Fri, 15 Dec 2000 12:24:05 -0800  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-124775-2000.12.15-14.38.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Well is the M prefix Canada also? My cheat sheet shows it as just Great Britain and Northern Ireland.

Mike

---

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#### 402. [aprssig] Re: Unusual traffic

From: "The Germino's" <[mgermino@inreach.com](mailto:mgermino@inreach.com)>  
Date: Fri, 15 Dec 2000 12:32:01 -0800  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-124776-2000.12.15-14.48.04--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

OOPS. I reread the last post and saw I miss-read it. Sorry. Too quick with the enter key HIHI

Mike

---

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#### 403. [aprssig] Re: 9600bps radios, was Re: APRS Satellite Details

From: Jeff King <[jeff@aerodata.net](mailto:jeff@aerodata.net)>  
Date: Fri, 15 Dec 2000 15:45:14 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-124777-2000.12.15-14.52.25--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bob Bruninga wrote:  
>

> Its interesting to note that One advantage of the D7E anywhere is that its  
> UHF filters are optimized for 430-440 and so it is about 3 dB better on  
> the satellites at 435 MHz than the D7A.

And could that explain the discrepancy you had between 1200 and 9600bps?

-Jeff

---

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#### 404. [aprssig] RE: X/Y coordinates on a graphic file (was: continuous bickering)

From: Mark Fellhauer <[sparkfel@primenet.com](mailto:sparkfel@primenet.com)>  
Date: Fri, 15 Dec 2000 14:42:48 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-124778-2000.12.15-14.57.05--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 08:54 AM 12/15/00, David Locke wrote:

>I still don't see how to use a bitmap as an APRs map... Where do you find  
>these X, Y coordinates to associate with the UTM coordinates?

Ok, Computer 101 time. This can be confusing, mainly again because there is no official universal standard among professions for plotting x/y coordinates. I would always make the x axis the vertical component and the y axis the horizontal component and plot for the vertical component, but artists and economists have to be different. So they make the x axis the horizontal component and the y axis the vertical component and plot for the horizontal. (In which case both camps solve for x - usually)

Since we are talking about pictures - Artists win. In graphics we report the horizontal first (X) and the vertical second (Y). So we report screen sizes like 640 x 480 (w x h) The numbers 640 and 480 represent pixels on the screen or 640 dots wide and 480 dots high.

This is also why the "sproul" format for the "geo" association file goes:

X Y Lon Lat - X being the horizontal component matching with longitude and

y being the vertical component matching with latitude.

Most graphics formats can be just about any width and height, and this is where a good graphics program comes in. I use VuePro's Viewprint32 because it takes very little resources, is easy to use, and does basic graphics manipulation. For most of my purposes I do not need a \$400 graphics program that requires 200 MB of my hard drive. Anyhow, ViewPrint also does what I need the most here which is to know the width and height of a graphics file (in pixels), the number of colors used, and the number of dots per inch. It also reports the X/Y coordinates of any point (or pixel) on a displayed picture when you move your mouse pointer and left click over said pixel. This is what we need to know most for APRS. Using the KELO TV doppler radar web page that I had mentioned in a previous post, I know that their GIF file is 640 x 480 pixels total size, because ViewPrint tells me so in the title bar. Putting my mouse pointer in the upper left corner of the picture and clicking ViewPrint reports (in it's title bar) the X/Y coordinates of 0, 0 or the starting point of any graphics file. Moving my mouse pointer to the lower right corner of the picture and left clicking ViewPrint gives me the end coordinates of 639, 479. If I put my mouse pointer anywhere inside the picture and left-click it reports the X/Y axis (again in pixels) of that point. This is where we find those X and Y coordinates the Sprouls ask for.

Notice you need to find TWO tiepoints - one near the top left and one near the bottom right to get your image to work right. If you knew the pixel width and height of a particular image file it might even be possible to tie each exact corner to their lat and lon. Then you would not need to find pixel points inside a particular image, instead using 0,0 and xx/yy (639,479 in a 640 x 480 image). But in practice it is usually much easier to locate two geographically prominent points inside an image.

Again, this reportage of a picture's X/Y coordinates pixelwise is not the same from software package to software package. In ViewPrint it does it automatically and in the top titlebar. Some graphics programs will only report the X/Y coordinate of where your pointer is in "Zoom" mode. And some you'll have to find an option to actually turn it on. Some programs like the Kodak imaging software bundled with Win98SE seem to lack this feature completely (!). So you have to find a piece of software that lets you "navigate" around in an image and that reports your X/Y coordinates as you do so. Since there are literally hundreds (if not thousands) of graphics manipulation programs available, it would be hard for me to tell you if the program you are using has this feature or how to enable it.

I hope that makes things clearer.

And again, I'm not trying to be pedantic, or talk down to anyone on the SIG. So please don't take it that way. Remember there are people on this SIG who are NOT computer experts and need very BASIC instruction on how things work.

73,

Mark  
KC7BXS

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Questions regarding the SIG go to the SIG administrator: [wallou@tapr.org](mailto:wallou@tapr.org)

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#### 405. [aprssig] RE: X/Y coordinates on a graphic file (was: continuous bickering)

From: "Jeff Brenton" <[jeffb@espi.com](mailto:jeffb@espi.com)>  
Date: Fri, 15 Dec 2000 15:15:14 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-124780-2000.12.15-15.28.01-lyris.aprssig@lists.tapr.org](mailto:LYR842-124780-2000.12.15-15.28.01-lyris.aprssig@lists.tapr.org)>  
Rendered body type: text/plain

One additional consideration for using graphic maps with WinAPRS et al... the "projection" factor.

At least in the case of Win/MacAPRS, maps are assumed to have straight, horizontal lines of latitude, and straight, vertical lines of longitude. While you might be able to put tie points together for, say, a WeatherTap state (or larger) map, these maps do not fit the Win/MacAPRS view of the flat earth, so anything plotted on them more than a few pixels away from the tiepoints is going to be inaccurately placed, with the error getting larger the further north you go.

Maps such as the single-site Doppler pictures on WeatherTap will work well, although they're limited to a 460km-square area. Most Intellicast maps are a flat projection, so they work, too, once you retrieve them.

A scanned section of an aviation sectional or world aeronautical chart would be of limited use, due to the use of what's called a "Lambert Conformal Conic Projection". Most road maps, though, use flat-earth projections, so they work.

---

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---

#### 406. [aprssig] RE: X/Y coordinates on a graphic file

From: "John Willis" <[data-day@server.data-day.com](mailto:data-day@server.data-day.com)>  
Date: Fri, 15 Dec 2000 15:16:46 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-124781-2000.12.15-15.32.04--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

A good explanation.  
A free viewer that does this is Irfanview available at:  
<http://www.irfanview.com>  
John Willis  
KB4DU  
[jwillis@data-day.com](mailto:jwillis@data-day.com)  
"If you obey all the rules, you'll miss all the fun"

----- Original Message -----  
From: "Mark Fellhauer" <[sparkfel@primenet.com](mailto:sparkfel@primenet.com)>  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Sent: Friday, December 15, 2000 2:42 PM  
Subject: [aprssig] RE: X/Y coordinates on a graphic file (was: continuous bickering)

> At 08:54 AM 12/15/00, David Locke wrote:  
>  
>  
> >I still don't see how to use a bitmap as an APRS map... Where do you find  
> >these X, Y coordinates to associate with the UTM coordinates?  
>  
> Ok, Computer 101 time. This can be confusing, mainly again because there  
> is no official universal standard among professions for plotting x/y  
> coordinates. I would always make the x axis the vertical component and  
> the y axis the horizontal component and plot for the vertical component,  
> but artists and economists have to be different. So they make the x axis  
> the horizontal component and the y axis the vertical component and plot  
> for  
> the horizontal. (In which case both camps solve for x - usually)  
>  
> Since we are talking about pictures - Artists win. In graphics we report  
> the horizontal first (X) and the vertical second (Y). So we report screen  
> sizes like 640 x 480 (w x h) The numbers 640 and 480 represent pixels on  
> the screen or 640 dots wide and 480 dots high.  
>  
> This is also why the "sproul" format for the "geo" association file goes:  
>  
> X Y Lon Lat - X being the horizontal component matching with longitude and  
> y being the vertical component matching with latitude.  
>  
> Most graphics formats can be just about any width and height, and this is  
> where a good graphics program comes in. I use VuePro's Viewprint32  
> because  
> it takes very little resources, is easy to use, and does basic graphics  
> manipulation. For most of my purposes I do not need a \$400 graphics  
> program that requires 200 MB of my hard drive. Anyhow, ViewPrint also  
> does  
> what I need the most here which is to know the width and height of a  
> graphics file (in pixels), the number of colors used, and the number of  
> dots per inch. It also reports the X/Y coordinates of any point (or  
> pixel)  
> on a displayed picture when you move your mouse pointer and left click  
> over  
> said pixel. This is what we need to know most for APRS. Using the KELO  
> TV doppler radar web page that I had mentioned in a previous post, I know  
> that their GIF file is 640 x 480 pixels total size, because ViewPrint

tells

- > me so in the title bar. Putting my mouse pointer in the upper left corner
- > of the picture and clicking ViewPrint reports (in it's title bar) the X/Y
- > coordinates of 0, 0 or the starting point of any graphics file. Moving my
- > mouse pointer to the lower right corner of the picture and left clicking
- > ViewPrint gives me the end coordinates of 639, 479. If I put my mouse
- > pointer anywhere inside the picture and left-click it reports the X/Y axis
- > (again in pixels) of that point. This is where we find those X and Y
- > coordinates the Sprouls ask for.
- >
- > Notice you need to find TWO tiepoints - one near the top left and one near
- > the bottom right to get your image to work right. If you knew the pixel
- > width and height of a particular image file it might even be possible to
- > tie each exact corner to their lat and lon. Then you would not need to
- > find pixel points inside a particular image, instead using 0,0 and xx/yy
- > (639,479 in a 640 x 480 image). But in practice it is usually much easier
- > to locate two geographically prominent points inside an image.
- >
- > Again, this reportage of a picture's X/Y coordinates pixelwise is not the
- > same from software package to software package. In ViewPrint it does it
- > automatically and in the top titlebar. Some graphics programs will only
- > report the X/Y coordinate of where your pointer is in "Zoom" mode. And
- > some you'll have to find an option to actually turn it on. Some programs
- > like the Kodak imaging software bundled with Win98SE seem to lack this
- > feature completely (!). So you have to find a piece of software that

lets

- > you "navigate" around in an image and that reports your X/Y coordinates as
- > you do so. Since there are literally hundreds (if not thousands) of
- > graphics manipulation programs available, it would be hard for me to tell
- > you if the program you are using has this feature or how to enable it.
- >
- > I hope that makes things clearer.
- >
- > And again, I'm not trying to be pedantic, or talk down to anyone on the
- > SIG. So please don't take it that way. Remember there are people on
- > this
- > SIG who are NOT computer experts and need very BASIC instruction on how
- > things work.
- >
- > 73,
- >
- > Mark
- > KC7BXS
- >
- >
- > ---
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- > Questions regarding the SIG go to the SIG administrator: wallou@tapr.org
- >

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#### 407. [aprssi] Re: 9600bps radios, was Re: APRS Satellite Details

From: Bob Bruninga <bruninga@usna.edu>  
 Date: Fri, 15 Dec 2000 17:02:11 -0500 (EST)  
 To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
 Cc: TAPR APRS Special Interest Group <aprssi@lists.tapr.org>  
 Message-ID: <LYR842-124791-2000.12.15-16.14.50--lyris.aprssi#tapr.org@lists.tapr.org>  
 Rendered body type: text/plain

On Fri, 15 Dec 2000, Jeff King wrote:

- > > One advantage of the D7E... is that its UHF filters are optimized for
- > > 430-440 [Europe] and so it is about 3 dB better on the satellites at
- > > 435 MHz than the D7A.[Optimized for the 440-450 band in the USA].
- >
- > And could that explain the discrepancy you had between 1200 and 9600bps?

Nope. The 3 dB above is simply the difference in bands in Europe and USA.

And there is no "discrepancy". As I noted in my original post, the 7 dB advantage of 1200 over 9600 is consistent and quite good. This is compared to the theoretical 9 dB possible advantage of 1200 over 9600. (with matched filters and equal modulations)

You jumped on that to mean that the Kenwood is 7 dB worse at 9600 baud and then extended that to conclude shoddy engineering and not state-of-the art at 9600. Which is a red hearing comparison and just wrong. 1200 should always be better than 9600 if properly implemented.

>From these two measurements there is no way that you can conclude anything about the performance of the Kenwood versus OTHER radios as you have been doing. In fact, the performance of the Kenwood at 9600 baud at .5 uV is very good. And the performance at 1200 baud at .2 uV is even better!

You may be confused in the comparison of AFSK and FSK. There are 2 factors involved in comparing AFSK with FSK. Any loss due to imperfections in double modulation, and the advantage of the FM improvement effect because of the wider bandwidth modulation. If the imperfections were 0 and the FM improvement was perfect, then we should see the 9 dB advantage of 1200 over 9600 FSK even though the modulations are different.

The fact that we see a 7 dB advantage instead of 9 tells me that Kenwood got within 2 dB of theoretical. So seeing a 7 dB advantage of 1200 baud over 9600 baud is quite good, considering the theoretical but unachievable difference could be 9 dB.

None of these have anything to do with comparisons with other radios. Which you were so keen to make.

Since you said that you have two different 9600 baud radios, it would be nice if you could do the same sensitivity measurements that I made with the Kenwood that arrived at the 0.5 uV result that I have. Yours may be better, or they may be worse, and this will be good for us all to see. But until we see those measurements, and have something to compare, then using the 7 dB advantage of 1200 baud over 9600 baud as a comment on the Kenwood is just a red hearing.

I still disagree with your hypothesis that 9600 baud FSK should be better than 1200 baud AFSK. Not at all if both are done properly. You are overlooking the FM improvement affect.

Yes, we all know that AFSK cannot be as good as FSK for the same baud rate. But we are talking about 1200 baud AFSK vs 9600 baud FSK in the same channel. There is a factor of 8 difference (9 dB) and it has nothing to do with the quality of the radio or its engineering. This is just the laws of physics, not Kenwood's engineering.

de WB4APR, Bob

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---

#### 408. [aprssig] Re: 9600 bps radios, was Re: APRS Satellite Details

From: "Robert Donnell" <[kd7nm@pugetsound.net](mailto:kd7nm@pugetsound.net)>  
Date: Fri, 15 Dec 2000 14:26:48 -0800  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-124793-2000.12.15-16.38.48--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-124793-2000.12.15-16.38.48--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Bob:

I may have missed it, but I'd like to have a pointer to a document that states or analyzes that an optimized 1200 bps AFSK on RF FM signal is capable of being demodulated to the same degree of bit error rate with a 9 dB weaker signal as an optimized 9600 bps RF FSK signal, using the same deviation or bandwidth - either one. I can't say I'd ever seen that engineering analysis presented anywhere before. I request this since you quote the figure so frequently, and I'm sure I'm not the only one who would like to see that documentation

-----Original Message-----

From: [bounce-aprssig-17768@lists.tapr.org](mailto:bounce-aprssig-17768@lists.tapr.org)  
[<mailto:bounce-aprssig-17768@lists.tapr.org>] On Behalf Of Bob Bruninga  
Sent: Friday, December 15, 2000 2:02 PM

To: TAPR APRS Special Interest Group  
Cc: TAPR APRS Special Interest Group  
Subject: [aprssig] Re: 9600bps radios, was Re: APRS Satellite Details

--- quote of Jeff King deleted here ---

And there is no "discrepancy". As I noted in my original post, the 7 dB advantage of 1200 over 9600 is consistent and quite good. This is compared to the theoretical 9 dB possible advantage of 1200 over 9600. (with matched filters and equal modulations)

--- rest of message deleted here, reference to 9 dB figure repeated several more times ---

73, Bob Donnell, KD7NM

-----  
Robert Donnell, KD7NM (206) 542-7661  
18828 Midvale Ave N mailto:kd7nm@pugetsound.net  
Shoreline, WA 98133  
Western Washington Amateur IP Address Coordinator  
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#### 409. [aprssig] RE: X/Y coordinates on a graphic file (was: continuous bickering)

From: David Locke <locked@intplsrv.net>  
Date: Fri, 15 Dec 2000 16:32:40 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "'aprssig@lists.tapr.org'" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124796-2000.12.15-16.50.39--lyris.aprssig#tapr.org@lists.tapr.org>  
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Thanks for the information! I believe I have all that pixel stuff now.

How do you format the \*.GEO file with that information. "#xylonlat  
TIEPOINT5198-100.28671444.382867 TIEPOINT678450-87.53024738.037397" doesn't  
gel with me.

Which of these numbers are lat, long and which are x and which are y  
coordinates? Do I need two lines one fore each point??

Maybe if I had a \*.gif and a corresponding \*.geo file I could figure that  
part out. Do you have one I could look at?

Thanks,  
Dave Locke  
KC5SII-9/3

-----Original Message-----

From: Mark Fellhauer [SMTP:sparkfel@primenet.com]  
Sent: Friday, December 15, 2000 3:08 PM  
To: locked@intplsrv.net; TAPR APRS Special Interest Group  
Subject: RE: X/Y coordinates on a graphic file (was: continuous bickering)

At 08:54 AM 12/15/00, David Locke wrote:

>I still don't see how to use a bitmap as an APRs map... Where do you find  
>these X, Y coordinates to associate with the UTM coordinates?

Ok, Computer 101 time. This can be confusing, mainly again because there  
is no official universal standard among professions for plotting x/y  
coordinates. I would always make the x axis the vertical component and  
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but artists and economists have to be different. So they make the x axis  
the horizontal component and the y axis the vertical component and plot for  
the horizontal. (In which case both camps solve for x - usually)

Since we are talking about pictures - Artists win. In graphics we report  
the horizontal first (X) and the vertical second (Y). So we report screen  
sizes like 640 x 480 (w x h) The numbers 640 and 480 represent pixels on  
the screen or 640 dots wide and 480 dots high.

This is also why the "sproul" format for the "geo" association file goes:

X Y Lon Lat - X being the horizontal component matching with longitude and y being the vertical component matching with latitude.

Most graphics formats can be just about any width and height, and this is where a good graphics program comes in. I use VuePro's ViewPrint32 because it takes very little resources, is easy to use, and does basic graphics manipulation. For most of my purposes I do not need a \$400 graphics program that requires 200 MB of my hard drive. Anyhow, ViewPrint also does what I need the most here which is to know the width and height of a graphics file (in pixels), the number of colors used, and the number of dots per inch. It also reports the X/Y coordinates of any point (or pixel) on a displayed picture when you move your mouse pointer and left click over said pixel. This is what we need to know most for APRS. Using the KEO TV doppler radar web page that I had mentioned in a previous post, I know that their GIF file is 640 x 480 pixels total size, because ViewPrint tells me so in the title bar. Putting my mouse pointer in the upper left corner of the picture and clicking ViewPrint reports (in it's title bar) the X/Y coordinates of 0, 0 or the starting point of any graphics file. Moving my mouse pointer to the lower right corner of the picture and left clicking ViewPrint gives me the end coordinates of 639, 479. If I put my mouse pointer anywhere inside the picture and left-click it reports the X/Y axis (again in pixels) of that point. This is where we find those X and Y coordinates the Sprouls ask for.

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I hope that makes things clearer.

And again, I'm not trying to be pedantic, or talk down to anyone on the SIG. So please don't take it that way. Remember there are people on this SIG who are NOT computer experts and need very BASIC instruction on how things work.

73,

Mark  
KC7BXS

---

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---

## 410. [aprssig] Re: 9600bps radios

From: "Henk de Groot" <henk.de.groot@hetnet.nl>  
Date: Fri, 15 Dec 2000 23:12:27 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124797-2000.12.15-16.51.42--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> Do you have a D7? How about giving me the part number of the filter....  
what  
> I offered to do was in good spirit and I think it would benefit any D7  
owner  
> that was interested in improving the performance, assuming the filter  
could  
> be replaced with one of better group delay characteristics. If you can't  
read the  
> schematic, scan it in and I can look at it for you.



I can't read the schematic of my TH-D7E, it isn't there. That's how far HAM radio has come, you cannot even see how your rig is put together. Not that it matters much, the components are so small and tight that you don't want to mess with it anyway. Even Kenwood has problems with this.

As you know we now have a DAMA capable TH-D7E v 2.0. In The Netherlands v 1.0 users were not offered a possibility to upgrade, but in Germany it was possible for a short while. I heard rumours that during the upgrade Kenwood broke about 50% of the handhelds. I have no confirmation on this, but at least they stopped the service after about 2 months and shipped the special equipment they needed for the upgrade back to Japan. I believe that is also the reason why in the US there was only 1 repair center handling the TH-D7A to TH-D7A(G) upgrade.

Anyway, you don't want to stick your soldering iron in this unit. The only thing you really can do inside is to cut the famous green wire, but for that you don't need any schematic, only Internet access...

Kind regards,

Henk.

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Questions regarding the SIG go to the SIG administrator: [wallou@tapr.org](mailto:wallou@tapr.org)

---

#### 411. [aprssig] Re: 9600bps radios, was Re: APRS Satellite Details

From: "Henk de Groot" <[henk.de.groot@hetnet.nl](mailto:henk.de.groot@hetnet.nl)>  
Date: Fri, 15 Dec 2000 23:33:27 +0100  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-124798-2000.12.15-16.52.15--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Van: "Bob Bruninga" <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
> Kenwood discovered how much different Europe was than the USA, they  
> recalled ALL D7E UNITS and tried to fix it for DAMA, etc.. But with a "1

Correction, they should have, but they did not. The Dutch Hams with a version 1.0 TH-D7E never got the chance to upgrade to 2.0 and in Germany there was an upgrade service for only about 2 months before they quit; the Germans had to pay for that fix too. You can read about it on the TH-D7 Egroup at the first half of the year.

Anyway, I think we should close the topic on the Kenwood stuff, the point is painfully clear by now and for the main use here, APRS, the unit works most of the time.

Kind regards,

Henk.

---

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---

#### 412. [aprssig] APRS Satellite Link Budgets

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Fri, 15 Dec 2000 17:51:43 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-124802-2000.12.15-17.04.22--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Since we hope to use the Kenwood D7 and D700 and maybe the Alinco digital radios as mobile/handheld satellite terminals, and their antennas in this situation are well known, we can put together the following link budgets for using these radios as Satellite Message Transceivers for our 3 Watt 2meter 1200 baud APRS Satellite downlink.

| RANGE  | ELEVATION | SIGNAL | D700 Mobile | D7A Stock whip | D7A w 19" whip |
|--------|-----------|--------|-------------|----------------|----------------|
| 700 mi | 90 deg    | -101   | 22 dB       | 10 dB          | 16 dB          |

|         |        |      |       |       |       |
|---------|--------|------|-------|-------|-------|
| 1000 mi | 45 deg | -105 | 18 dB | 6 dB  | 12 dB |
| 1500 mi | 25 deg | -108 | 15 dB | 3 dB  | 9 dB  |
| 2000 mi | 10 deg | -111 | 12 dB | 0 dB  | 6 dB  |
| 3000 mi | <5 deg | -114 | 9 dB  | -3 dB | 3 dB  |

These are margins \*above\* reliable packet decoding.

#### CONCLUSIONS:

- 1) A mobile (assumed 3 dB gain whip) will get its messages even through a tree or two all the way down to the horizon. At 45 degrees, it can stand over 18 dB of attenuation and still get its message. Can be parked under a roof... or two.
- 2) D7A with good whip can do almost as well. Should be able to get your messages inside your house on most passes
- 3) Stock antenna should be able to get its messages if he can see the sky above about 10 deg. Or can even get his messages with the radio in his pocket on passes above 45 deg!

I need to double check the Elevation angles above for our orbit. But the Link budget values should be pretty good. The next level of detail would be to match this with the gain plot of a typical mobile antenna.

The goal is to get 2-way worldwide handheld satellite communications anywhere a few times a day...

One more thing. Since with APRS, the SATGATE computer KNOWS where you are and WHERE The satellite is, it won't waste bandwidth transmitting your internet linked messages to you until the geometry is such to optimize the link to your given antenna and location. This system can just be so cool!

de WB4APR, Bob

See APRS on Satellites <http://web.usna.navy.mil/~bruninga/astars.html>

---

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Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

## 413. [aprssig] Re: 9600 bps radios, was Re: APRS Satellite Details

From: Steve Bragg <steve@hamhud.net>  
Date: Fri, 15 Dec 2000 16:52:43 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124803-2000.12.15-17.05.24--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Robert Donnell wrote that he needs a document that:

- > states or analyzes that an optimized 1200 bps AFSK on RF FM signal is
- > capable of being demodulated to the same degree of bit error rate with a 9
- > dB weaker signal as an optimized 9600 bps RF FSK signal, using the same
- > deviation or bandwidth - either one.

Unless I'm mistaken here, Bob is stating that 1200 baud is 9.03 "dB-Baud" lower than 9600 baud. That is,  $9.03 \text{ dB} = 10 \text{ LOG}(9600/1200) = 10 \text{ LOG}(8)$ . This is the "factor of 8" he refers to. Since bit error rate (BER) inherently is defined in terms of the symbol rate, lowering the bit rate naturally lowers the BER, all other things being equal. This is the reason that NASA talked to the Voyagers at a miserly 16 baud near the end of the mission; namely, to decrease the BER and therefore increase the effective signal/noise ratio.

73,

Steve Bragg KA9MVA

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 / , < / / | / / / / / | / / / |
 / / | / _ _ \ , / / / / | / / _ _ |
 / _ | / _ / | / _ _ / / | / _ / |
=====

```

Steve Bragg KA9MVA ka9mva@qsl.net ICQ:29816109  
HamHUD APRS Mobile Terminal: [www.hamhud.net](http://www.hamhud.net)  
Owasso, Oklahoma, USA

Owasso Amateur Radio Club [www.qsl.net/oarc](http://www.qsl.net/oarc)  
FINDU, FIND ME WITH APRS! <http://map.findu.com/ka9mva-9>

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#### 414. [aprssig] Re: 9600bps radios, was Re: APRS Satellite Details

From: Jeff King <[jeff@aerodata.net](mailto:jeff@aerodata.net)>  
Date: Fri, 15 Dec 2000 17:57:57 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-124804-2000.12.15-17.06.04--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bob Bruninga wrote:

>  
> On Fri, 15 Dec 2000, Jeff King wrote:  
>  
> > > One advantage of the D7E... is that its UHF filters are optimized for  
> > > 430-440 [Europe] and so it is about 3 dB better on the satellites at  
> > > 435 MHz than the D7A.[Optimized for the 440-450 band in the USA].  
> >  
> > And could that explain the discrepancy you had between 1200 and 9600bps?  
>  
> Nope. The 3 dB above is simply the difference in bands in Europe and USA.

OK. I was simply asking about the 1200 vs. 9600 bps discrepancy and hoping to explain part of it away by you testing 1200 at one frequency and 9600 at another. The levels should be nearly the same in a well designed 9600bps radio, as others have also pointed out.

<Rest of starting it all over again deleted.>

Bob, I asked a simple question that required a simple yes or no answer. I made no accusations in that message, just asked for a clarification. No ill will was intended. Yet here you go again.

Bob, I don't have time for this. I suggested some texts you could read to become more familiar with the various modulation techniques, that also backed up what had been said. But you say you don't need to do this. I offered to research the IF filter in case it was a group delay issue, you say you don't know what a SMD IF filter looks like and/or don't even want to try. One can only offer so much.

I think you are taking this way to personal.... I know that Kenwood paid you to consult on the design of this radio, and as such, can see how you might take it personal, but this started by someone saying, and I affirming, that the response on 1200bps AFSK should be similar to 9600bps FSK, in a well designed 9600bps radio. All you are doing here is shooting the messenger... go argue with Steve Goode, G3RUH or Tom McDermott. You may be arguing "physics" as you say, but its your own brand. Its not a personal attack on you at all, and I wish you'd stop taking it that way. Sometimes, believe it or not, A actually is A.

Beyond that, I don't know what else to say.... so I won't. Please, just put me on ignore and I'll do the same. Quite a number have said they are sick of this.

Thanks

Jeff

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#### 415. [aprssig] RE: X/Y coordinates on a graphic file

From: WA8LMF1@aol.com  
Date: Fri, 15 Dec 2000 17:53:47 EST  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-124805-2000.12.15-17.07.57--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In a message dated 12/15/00 1:03:03 PM Pacific Standard Time, [sparkfel@primenet.com](mailto:sparkfel@primenet.com) writes:

<< o you have to find a piece of software that lets  
you "navigate" around in an image and that reports your X/Y coordinates as  
you do so. >>

Another excellent program for this purpose is the extraordinary freeware Windows 32 graphics viewer program IrfanView. Originally written as a programming exercise by a Bosnian computer science student in Austria, It is truly FREEWARE, not shareware. It can display virtually any graphics file format known, is small (less than 1 MB) loads fast, can open in one format and save into another (including GIF format -- harder and harder to find in low-cost packages), do automatic slide shows, convert a directory of images into thumbnails with or without an HTML frame around them, can do color reduction/gamma correction, crop images, and much more. It even plays animated GIFS, MP3s and MPEG/AVI files. It has TWAIN links (i.e. FILE, ACQUIRE in it menus) and makes a superb front-end for launching scanners since it can save into much wider variety of file formats then the utilities provided with most scanners.

I consider it an absolutely essential must-have add-on to the Explorer in any Windows installation, and I always place a copy of the install file (about 700K) on any CD-ROM of photos that I create.

The basic operation is incredibly simple: double-click a file in the Windows File Explorer to open it, then hit <Enter> to go to a full screen display with the image sized to fit your screen, then <Enter> again to go back to a windowed display. Tap the <Space> bar to advance to the next image in a directory. The letter <F> toggles between life-size (i.e. one image pixel to one screen pixel) and Fit-to-screen for oversized images. If an image is too big for the screen, you can use the cursor pad arrow keys to move up/down/left/right instead of fussing with a mouse and scroll bars. It has the same left-click-in-the-image to discover pixel coordinates as you were describing for Viewprint. When you rubber-band a crop box, the coordinates and size are constantly displayed in the title bar.

Another really sexy feature for APRS application (yes this IS on-topic) is the ability to do screen captures, meaning you can open maps in any program and "steal" the screen for conversion to APRS maps, even if the program doesn't have a provision for saving the screen to disk. Even better, you can set it to do screen caps AUTOMATICALLY at timed intervals. I have used this to "record" my travels by capturing the FINDU screen on my machine at home every three minutes while I am driving around. Great for creating a demo (I assemble the FINDU screen caps into an animated GIF). I use it for screen caps so much that I keep it's icon in the Win98 quick launch bar where it's always available.

You can download it either from my website:  
<http://members.aol.com/wa8lmf/downloads>

or from the official IrfanView site:  
<http://www.irfanview.com>

Stephen H. Smith  
Email: [wa8lmf@aol.com](mailto:wa8lmf@aol.com)  
Homepage: <http://members.aol.com/wa8lmf>

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| Radio Communications Systems      Personal Computers  
|                   Consulting and Systems Integration  
| GPS Custom Mapping      &      Radio Coverage Surveys  
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## 416. [aprssig] Re: 9600 baud radios

From: Steve Bragg <[steve@hamhud.net](mailto:steve@hamhud.net)>  
Date: Fri, 15 Dec 2000 17:08:27 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-124809-2000.12.15-17.23.09--lyris.aprssig@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

(This line is added because Lyris sucks and for some reason wouldn't accept my post. Rats...)

Robert Donnell wrote that he needs a document that:

- > states or analyzes that an optimized 1200 bps AFSK on RF FM signal is
- > capable of being demodulated to the same degree of bit error rate with a 9
- > dB weaker signal as an optimized 9600 bps RF FSK signal, using the same
- > deviation or bandwidth - either one.

Unless I'm mistaken here, Bob is stating that 1200 baud is 9.03 "dB-Baud" lower than 9600 baud. That is,  $9.03 \text{ dB} = 10 \text{ LOG} (9600/1200) = 10 \text{ LOG} (8)$ . This is the "factor of 8" he refers to. Since bit error rate (BER) inherently is defined in terms of the symbol rate, lowering the bit rate naturally lowers the BER, all other things being equal. This is the reason that NASA talked to the Voyagers at a miserly 16 baud near the end of the mission; namely, to decrease the BER and therefore increase the effective signal/noise ratio.

73.

Steve Bragg KA9MVA

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Steve Bragg KA9MVA    ka9mva@qsl.net    ICQ:29816109  
HamHUD APRS Mobile Terminal: [www.hamhud.net](http://www.hamhud.net)  
Owasso, Oklahoma, USA  
Owasso Amateur Radio Club [www.qsl.net/oarc](http://www.qsl.net/oarc)  
FINDU, FIND ME WITH APRS! <http://map.findu.com/ka9mva-9>

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Questions regarding the SIG go to the SIG administrator: [wallou@tapr.org](mailto:wallou@tapr.org)

## 417. [aprssig] Re: 9600 bps radios, was Re: APRS Satellite Details

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Fri, 15 Dec 2000 18:38:54 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: "'TAPR APRS Special Interest Group'" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-124812-2000.12.15-17.51.40--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Fri, 15 Dec 2000, Robert Donnell wrote:

- > Bob:
- >
- > I may have missed it, but I'd like to have a pointer to a document that
- > states or analyzes that an optimized 1200 bps AFSK on RF FM signal is
- > capable of being demodulated to the same degree of bit error rate with a 9
- > dB weaker signal as an optimized 9600 bps RF FSK signal, using the same
- > deviation or bandwidth - either one.

Good question. I have not found a rigorous analysis. So I did this:  
1) We all agree that 1200 baud should be 9 dB better than 9600 if both are matched to proper bandwidths.

2) But if we use the SAME bandwidth, then when we spread out our 1200 baud across the larger bandwidth, and we use a perfect modulation/demodulation taking advantage of this wider bandwidth, then we should get it all back as processing gain. FM is not perfect. SO there is the question. How much processing gain do we get by double demodulating 1200 baud in an AFSK channel that is much wider than needed for 1200 FSK?

AND I do not have the answer. I am asking also. But I DID measure the difference with the Kenwoods and got 7 dB difference. At least that is a starting point..

- > I can't say I'd ever seen that engineering analysis presented anywhere
- > before. I request this since you quote the figure so frequently, and
- > I'm sure I'm not the only one who would like to see that documentation..

ME too! That is why I am printing these mesasured results to find out what the guru's think... and why I would love to see other measured results. I thought the Kenwood was the perfect measurement, because it is an all-in-one factory integrated 1200 and 9600 baud radio. SO far, any other measumrements are different radios, different filters, different TNC's different audio circiuts, and so the numbers ar not good for apples and apples comparisions...

But measurements are about all we can go on.... or at least all we can actually use, hi hi...

de WB4APR, Bob

> -----Original Message-----  
> From: bounce-aprssi-17768@lists.tapr.org  
> [mailto:bounce-aprssi-17768@lists.tapr.org]On Behalf Of Bob Bruninga  
> Sent: Friday, December 15, 2000 2:02 PM  
> To: TAPR APRS Special Interest Group  
> Cc: TAPR APRS Special Interest Group  
> Subject: [aprssi] Re: 9600bps radios, was Re: APRS Satellite Details  
>  
> --- quote of Jeff King deleted here ---  
>  
> And there is no "discrepancy". As I noted in my original post, the 7 dB  
> advantage of 1200 over 9600 is consistent and quite good. This is  
> compared to the theoretical 9 dB possible advantage of 1200 over 9600.  
> (with matched filters and equal modulations)  
>  
> --- rest of message deleted here, reference to 9 dB figure repeated several  
> more times ---  
>  
>  
> 73, Bob Donnell, KD7NM  
>  
> -----  
> Robert Donnell, KD7NM (206) 542-7661  
> 18828 Midvale Ave N mailto:kd7nm@pugetsound.net  
> Shoreline, WA 98133  
> Western Washington Amateur IP Address Coordinator  
> -----  
>  
>

de WB4APR@amsat.org, Bob

See my APRS LIVE pages <http://web.usna.navy.mil/~bruninga/aprs.html>  
See APRS SATELLITES <http://web.usna.navy.mil/~bruninga/astars.html>  
See MIM/Mic-E/Mic-Lite <http://www.tapr.org/tapr/html/mic-e.html>

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## 418. [aprssi] News from K4HG

From: Stan Horzempa <stanzepa@mail2.nai.net>  
Date: Fri, 15 Dec 2000 19:24:42 +0000  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-124819-2000.12.15-18.36.29--lyris.aprssi@tapr.org@lists.tapr.org>  
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I have now completed the automated infrastructure to allow entry of position via the web and email.

To see how to register, go to:

<http://www.findu.com/account.html>

For info on how to send the positions after you have registered, see:

<http://www.findu.com/input.html>

Steve K4HG

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#### 419. [aprssig] Re: 9600 bps radios, was Re: APRS Satellite Details

From: Steve Bragg <steve@hamhud.net>  
Date: Fri, 15 Dec 2000 18:27:32 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124821-2000.12.15-18.47.28--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bob Bruninga wrote:

> 1) We all agree that 1200 baud should be 9 dB better than 9600 if both  
> are matched to proper bandwidths.  
>  
> 2) But if we use the SAME bandwidth, then when we spread out our 1200 baud  
> across the laarger bandwidth, and we use a perfect modulation/demodulation  
> taking advantage of this wider bandwidth, then we should get it all back  
> as processing gain. FM is not perfect. SO there is the question. How  
> much processing gain do we get by double demodulating 1200 baud in an AFSK  
> channel that is much wider than needed for 1200 FSK?  
>  
> AND I do not have the answer.

I was just writing this to someone offline:

You can do a "near-apples-to-apples" comparison if you are able to  
seperate out the: a) BER contribution from the modulation type (e.g.,  
raised cosine FSK vs. FM-FSK) from b) the BER contribution from baud  
rate. There are other contributions (matched vs. unmatched filters),  
but lets assume for the sake of argument that the systems are matched  
for whatever baud rate/modulation type we're talking about.

It would be nice if we could quantify the BER detriment of using FM-FSK  
as opposed to G3RUH-type modulation. Call this the "modulation penalty"  
of using AFSK. Then, you can SUBTRACT the "modulation penalty" from the  
theoretical BAUD RATE improvement of 1200 vs. 9600, and get a real  
number for 1200-AFSK vs. 9600-G3RUH.

Now, it looks like Bob just doesn't have a quantity for "modulation  
penalty", and assumes that it comes out around 2 dB, because the Kenwood  
measures out at 7dB better on 1200AFSK vs. 9600FSK. The 2dB (9 dB - 7dB)  
includes our "modulation penalty" number and the non-ideal nature of the  
system.

Or, maybe too much caffine has finally taken its toll...

73,

Steve KA9MVA

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Steve Bragg KA9MVA ka9mva@qsl.net ICQ:29816109  
HamHUD APRS Mobile Terminal: www.hamhud.net  
Owasso, Oklahoma, USA  
Owasso Amateur Radio Club www.qsl.net/oarc  
FINDU, FIND ME WITH APRS! <http://map.findu.com/ka9mva-9>

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#### 420. [aprssig] RE: X/Y coordinates on a graphic file (was: continuous bickering)

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Fri, 15 Dec 2000 18:43:23 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124822-2000.12.15-18.58.11--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 04:32 PM 12/15/00, David Locke wrote:

>Maybe if I had a \*.gif and a corresponding \*.geo file I could figure that  
>part out. Do you have one I could look at?

Actually, once you understand how to derive the X/Y coordinates of two  
points on an image and associate them with actual latitude and longitude  
it's best to go back to the WinAPRS DOCs under "Using images for maps/how

to use non Geo-Tiff images." I can't explain it any better than they do it there. And they have examples of how to format the file. There are several pre-existing \*.geo files in the WinAPRS\Images folder and you can open them up with Notepad and look at them. And to create a new file it's just as easy to use notepad. The format for a URL based map/image and one on your hard drive are almost identical except for the file extension (\*.GEO or \*.URL)

My only nitpick is that animated GIFS (such as the Radar Loop in Intellicast) do not appear to work in the images section of WinAPRS. They will display, but not animate. Animated maps do work under the URL section, or at least did before.

73,

Mark  
KC7BXS

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#### 421. [aprssig] Re: 9600 bps radios, was Re: APRS Satellite Details

From: Steve Bragg <steve@hamhud.net>  
Date: Fri, 15 Dec 2000 18:46:23 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124823-2000.12.15-19.02.34--lyris.aprssig@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Steve Bragg wrote:

> Now, it looks like Bob just doesn't have a quantity for "modulation  
> penalty", and assumes that it comes out around 2 dB, because the Kenwood  
> measures out at 7dB better on 1200AFSK vs. 9600FSK. The 2dB (9 dB - 7dB)  
> includes our "modulation penalty" number and the non-ideal nature of the  
> system.

And of course, Bob was just using the numbers he had, which allows at least some quantification of performance comparison to be made.

> Or, maybe too much caffeine has finally taken its toll...

(I meant that it was ME that's had way too much Dew today <grin>)

73,

Steve KA9MVA

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#### 422. [aprssig] KPC3+ question

From: "Paul E. Knpke, Jr." <pk@ij.net>  
Date: Fri, 15 Dec 2000 21:20:40 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124833-2000.12.15-20.33.31--lyris.aprssig@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I can't locate my KPC manual. What are the commands used to block the TNC from retransmitting a particular station?

I think the commands are SUPLIST and SUPCALL but I need to know the format.

Thanks  
Paul  
N4PK

(N4PK-10 digi Clearwater, FL)

Paul E. Knpke, Jr.  
pk@ij.net  
Largo, FL ICQ# 605259



-----  
Amateur Radio: N4PK  
ASM WCF Section  
N4PK/R 442.150 (103.5)  
Clearwater, FL

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#### 423. [aprssig] Garmin 45 and III+ power/data cables?

From: "Jack Coster" <[Jackc2740@cs.com](mailto:Jackc2740@cs.com)>  
Date: Fri, 15 Dec 2000 20:41:2  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-124834-2000.12.15-20.53.22-lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-124834-2000.12.15-20.53.22-lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

I just got a Garmin III+ but still have some cables from my 45. Are the pinouts the same? -- I really don't want to make anymore cables!  
Thanks.

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#### 424. [aprssig] Re: 9600bps radios, was Re: APRS Satellite Details

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Fri, 15 Dec 2000 21:48:01 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-124835-2000.12.15-21.01.13-lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-124835-2000.12.15-21.01.13-lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

On Fri, 15 Dec 2000, Jeff King wrote:  
<much snipped>  
> Bob, I don't have time for this....

My appologies to the SIG, Jeff, but someone had to stand up to your misinformation, tangential conclusions and derogatory evaluations of a radio you dont even own.

> ...I know that Kenwood paid you to consult on the design of this radio,

Yes, I am proud that they asked me to help them figure out the protocol in 1997 almost 3 years before there was a spec. At that point the TNC/Radio and RF was done. They just wanted to understand APRS.

> this started by ... I affirming, that the response on 1200bps AFSK  
> should be similar to 9600bps FSK, in a well designed 9600bps radio.

WHich I still think is incorrect. THough I too am dying to know the right answer...

> go argue with Steve Goode, G3RUH or Tom McDermott...

That is the point. I have read McDermont cover to cover and he cops out of making a direct comparison between AFSK and FSK. The closest he comes is 3.7 dB processing gain and 1 to 2 dB of preemphasis gain for about 6 dB but then this is compared to ASK and not FSK.

I would LOVE to find a rigorous answer. In the mean time I measured what I had and published it. You tried to trash it with no data, no analysis, and tangential conclusions obfuscating the topic. and misleading other readers. Someone had to keep up with you...

> Quite a number have said they are sick of this.

You can say that again. I sure am...

de WB4APR@amsat.org, Bob

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#### 425. [aprssig] Re: KPC3+ question

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Fri, 15 Dec 2000 20:58:21 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124836-2000.12.15-21.12.40--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 08:20 PM 12/15/00, Paul E. Knupke, Jr. wrote:

>I can't locate my KPC manual. What are the commands used to block the TNC  
>from retransmitting a particular station?

Why don't you just go to Kantronics' web site and download a new manual in  
.PDF format?

JUST KIDDING. (!)

Don't want to get anyone too excited, now.

Kantronics DOES NOT offer anything of substance on their web site for  
free. But then again, only Kenwood and Alinco seem to be the only amateur  
radio vendors who are willing to do that. Paccomm has an online command  
reference, but if you have a Paccomm TNC you have different problems  
altogether.

You can purchase a new manual from Kantronics. That'll be \$497.00 plus  
shipping. And we'll send you the wrong manual three times...

Lessee...

I think it's suplist. I'm not sure if that keeps the callsign from being  
digipeated. Remember, the KPC-3 has built-in help.

73,

Mark  
KC7BX5

---

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#### 426. [aprssig] RE: KPC3+ question

From: "Paul E. Knupke, Jr." <pk@ij.net>  
Date: Fri, 15 Dec 2000 22:22:00 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124837-2000.12.15-21.34.54--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

LLIST is the command.... I located my manual.

I know I had looked once on their web page and a manual was not there. I  
always liked the fact Paccomm has their commands on their web page!

I have a PicoPacket dual port TNC that I have used as a tracker and their  
web page is a huge help (unlike others.)

73  
Paul  
n4pk  
>

---

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#### 427. [aprssig] Re: 9600bps radios, was Re: APRS Satellite Details

From: Jeff King <jeff@aerodata.net>  
Date: Fri, 15 Dec 2000 23:10:44 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Cc: TAPR APRS Special Interest Group <aprssid@lists.tapr.org>  
Message-ID: <LYR842-124840-2000.12.15-22.17.49--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bob Bruninga wrote:

>  
> On Fri, 15 Dec 2000, Jeff King wrote:  
> <much snipped>  
> > Bob, I don't have time for this....  
>  
> My appologies to the SIG, Jeff, but someone had to stand up to your  
> missinformation, tangential conclusions and derogatory evaluations of a  
> radio you dont even own.  
> ...  
> You tried to trash it with no data, no analysis,  
> and tangential conclusions obfuscating the topic. and missleading other  
> readers. Someone had to keep up with you...

Whatever....if you say its so... I guess it is. Pseudo science has a way of conforming to your conclusions, no matter what they might be.

>  
> > this started by ... I affirming, that the response on 1200bps AFSK  
> > should be similar to 9600bps FSK, in a well designed 9600bps radio.  
>  
> WHich I still think is incorrect. Though I too am dying to know the right  
> answer...

If you don't know the right answer, then it seems premature to accuse me of misinformation, tangential conclusions, derogatory evaluations, trashing it with no data [actually your data], no analysis and misleading the reader. Did I leave out any other accusations you have made about me or are there any others you might want to toss in? Your on a roll now and it seems a shame to stop.

Here is a message I shared with a few people off SIG, although I'm sure you'll find a reason this company is wrong. That's the nice thing about pseudo science, you can define your conclusions and then construct your proof around it...

-Jeff

[comments I added to it for this posting]

-----

Gents:

If your interested, here are some data sheets. While not "state of the art" typically MX-COM's modems come within a few db of it.

First are the specs of a common Bell 202 modem, a MX614, which shows a min 20 db/sn requirement for operation (lets give them the benefit of the doubt and call that a BER of 10-5). [Bell 202 is the "1200 baud" packet standard]

See page 14 at: [http://www.mxcom.com/data\\_bulletins/db614-4.pdf](http://www.mxcom.com/data_bulletins/db614-4.pdf)

Next, we have the data sheet of a GMSK modem, the MX569 (this is what Kantronics uses in their TNC's). Hams typically use a BT of 0.5. This gives us a SN ratio of 12db for a BER of 10-5. Note in both cases the bandwidths are about the same (the 9.6k is a little less, as XX correctly pointed out). [This is a typical "9600 baud" ham modem]

See page 10 at: [http://www.mxcom.com/data\\_bulletins/db589-10.pdf](http://www.mxcom.com/data_bulletins/db589-10.pdf)

And this DOESN'T even take into account the conversion loss demodulating the FM signal for the AFSK. [you'll get a little noise in the conversion, hence reduced s/n]

There may be a 7db difference, but in reality we are looking at the Kenwood being at a 15db DISADVANTAGE of where it really should be at. The 9.6kbaud should outperform the 1200baud AFSK by a significant margin. Now, Kenwood may have a better Bell 202 modem, but even the best AMSK (audio MSK modems) need about a 12 db s/n ratio (MSK modems are synchronous and can "guess" the next bit transition unlike AFSK modems).

Generally, its been my experience when I converted a radio, this discrepancy was due to poor group delay charateritics. While one would assume a 9.6kbaud radio took this into account, they very well may not have. Fortunately, nowadays getting these IF filters is not hard as most manufacturers make them. The difference with a voice grade vs. a data grade filter is the shape of the pass band, a voice one is more the typical bell shaped curve where as the data one has sharper skirts. [and a flatter pass band with less ripple ]

-Jeff

---

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#### 428. [aprssig] Re: Garmin 45 and III+ power/data cables?

From: Wally Foster <wfoster@hsc.usc.edu>  
Date: Fri, 15 Dec 2000 19:13:36 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124841-2000.12.15-22.26.28--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Yes, you saved yourself some work there.. Exact match..

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#### 429. [aprssig] Lat / Lon Program

From: Powerwerx <kjm@powerwerx.com>  
Date: Fri, 15 Dec 2000 20:18:06 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124845-2000.12.15-22.37.56--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Is there a program that I could put in a Lat/lon and derive the altitude of that point?

73, ken, KM6YH

---

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---

#### 430. [aprssig] GPS Mobile Antenna & Mounting

From: "Travis J. Maclay" <travis@btea.org>  
Date: Fri, 15 Dec 2000 23:30:22 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124846-2000.12.15-22.42.34--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

SIG,

I know this has probably been covered in the past, but I recently purchased a new Toyota Camry. I am interested in permanently installing my Garmin 3+. I made a mount for it, but am in need of an external antenna. I'm thinking about running the cable through the headliner and mounting it to the glass just between the base of the rear view mirror and the headliner.

Any thoughts or ideas on this method or a better method? Also, any recommendations on a good gain, low draw antenna w/ BNC connector?

Any help would be greatly appreciated. Travis

---

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#### 431. [aprssig] Kantronics question

From: Rich, NØRUL <n0rul@kscable.com>  
Date: Fri, 15 Dec 2000 22:44:45 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124850-2000.12.15-22.55.17--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I thought APRS was helping Kantronics sales grow.

Last month I noticed Kantronics has a large "FOR SALE" sign at their location in Lawrence, Kansas.

Does anybody know WHAT IS HAPPENING WITH KANTRONICS??  
Did their company get purchased, are they relocating, or are they suffering the result of \$12 tinytraks?

Richard Roberts, NØRUL  
Wichita, Kansas  
mailto:n0rul@kscable.com

----- Original Message -----

From: "Mark Fellhauer" <sparkfel@primenet.com>  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Subject: [aprssig] Re: KPC3+ question

....  
> Kantronics DOES NOT offer anything of substance on their web site  
> for free. But then again, only Kenwood and Alinco seem to be the  
> only amateur radio vendors who are willing to do that. Paccomm has  
> an online command reference, but if you have a Paccomm TNC you  
> have different problems  
> altogether.  
>  
> You can purchase a new manual from Kantronics. That'll be \$497.00 plus  
> shipping. And we'll send you the wrong manual three times...  
....

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---

#### 432. [aprssig] FS: KPC3 6.0

From: "Lee H. Dahlen" <kd4tqz@qsl.net>  
Date: Fri, 15 Dec 2000 23:46:30 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: <aprssig@tapr.org>  
Message-ID: <LYR842-124853-2000.12.15-22.59.56--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

For Sale: Kantronics KPC3 6.0 Firmware

No books, or cables. Just the unit

6.0 Firmware, (Supports NMEA for Trackers.)

100.00 (Includes USPS Shipping in CUSA)

kd4tqz@qsl.net

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---

#### 433. [aprssig] KPC-9612

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Fri, 15 Dec 2000 22:54:30 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124856-2000.12.15-23.08.14--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

All this talk about 9600 BPS has prompted me to dust off my 9612+ and hook it up.

But now I can't remember how to switch streams and issue a connect command to the high speed port. I've tried the ~b and |b but it always goes to the 1200 baud port.

73,

Mark  
KC7BXS

---

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#### 434. [aprssig] Re: GPS Mobile Antenna & Mounting

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Fri, 15 Dec 2000 22:01:06 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124857-2000.12.15-23.14.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 11:30 PM 12/15/00 -0500, Travis J. Maclay blasted the following out into the ether:

><snip>

>I know this has probably been covered in the past, but I recently purchased  
>a new Toyota Camry. I am interested in permanently installing my Garmin 3+.  
>I made a mount for it, but am in need of an external antenna. I'm thinking  
>about running the cable through the headliner and mounting it to the glass  
>just between the base of the rear view mirror and the headliner.  
>

>Any thoughts or ideas on this method or a better method?

I've found that GPS antennas don't seem to be too picky as long as they're somewhere close to right side up. Your proposed location will probably work OK, if the glass doesn't attenuate the signals. Another good location is on top of the dashboard, or in a corner of the windshield.

> Also, any

>recommendations on a good gain, low draw antenna w/ BNC connector?

>

>Any help would be greatly appreciated. Travis

<http://www.sawcenter.com/gpsant.htm> usually has a good antenna available for a good price.

7 3

Earl

Earl Needham, KD5XB      mailto:KD5XB@AMSAT.ORG  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

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#### 435. [aprssig] Re: 9600bps radios

From: RMckni8527@aol.com  
Date: Sat, 16 Dec 2000 00:03:24 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: aprssig@tapr.org  
Message-ID: <LYR842-124858-2000.12.15-23.16.01--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In a message dated 12/15/00 2:51:10 PM Pacific Standard Time, henk.de.groot@hetnet.nl writes:

> I can't read the schematic of my TH-D7E, it isn't there. Thats how far HAM  
> radio has come, you cannot even see how your rig is put together. Not that  
> is matters much, the components are so small and tight that you don't want  
> to mess with it anyway. Even Kenwood has problems with this.  
>

It's not a matter of whether the average ham can fool with his new radio, it's about Kenwood, and mostly all the big producers, making as much money as possible. Instead of giving the new owner at least a minimal amount of information, so they can at least control things like adjusting power levels in the various low-med-high output settings to match their external power amps input requirements, nearly all have elected to require you to buy the service manual. So now you have to fork out an extra \$35 on average, just to get a set of commands to do something that used to be accomplished with a small trimmer pot. I asked Kenwood for just this exact info on my two new

TM-V7A's, and they claimed it was too complicated to discuss over the telephone and advised me to purchase the service manual. It actually was only about 5 steps. Marketing and \$\$\$.

Kenwood - if you're listening - that service manual was the LAST thing you'll ever sell me! It cost about \$1 a page. And if anyone owns a TM-V7A and wants a free copy of the service manual, I'll be GLAD to send them one, just to spite Kenwood! (reimbursement for postage appreciated... <g>)

73's  
Ray - WB3ABN  
Kingston, WA

---

#### 436. [aprssig] Java APRS frequency agile radio, was Re: 9600bps radio

From: Jeff King <jeff@aerodata.net>  
Date: Sat, 16 Dec 2000 00:30:15 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124859-2000.12.15-23.37.56--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

"Gregg G. Wonderly" wrote:

- > As I've said here before Java (and some other dynamic languages, but I think
- > java has the most opportunities via the aJile processor) can provide the
- > ability for users to load software that only controls the desired portions of
- > the radio that would allow me to use the VFO, the PTT, the TNC and other major
- > hardware components in controlled environments that would make for a truely
- > awesome combination of capabilities and software upgrades!

You need to plug your mailing list here also.

<http://www.egroups.com/group/jeaprs>

Earlier Bill Vodal wrote:

- > With a little help from a laptop, it would make a frequency agile
- > mobile TCP system. Automatically switching hubs (Wetnet has 5) as
- > the location is changed to get the best gateway. The computer would
- > know when the satellites were in range and automatically switch over
- > to monitor for APRS packets and share a "Hello World" or two of its
- > own. Any received packets could be buffered and fed back to the
- > community after the satellite pass. If the [radio] will do simultaneous
- > 9600 on UHF and 1200 on VHF, it could do this gating real time...

And later Gregg said:

- > If a company manages to find a team of 7 people that included an RF engineer,
- > an electronics engineer, an audio electronics engineer, a couple of Java
- > software engineers, and a handful of wannbe users of this new radio, that team
- > could build an awesome radio that would be about \$700.00 in price range, be in
- > a package slightly larger than the [ht], and include cross band simultaneous
- > operations, APRS, an ethernet port two TNCs and well...

That's a big investment for any company, but maybe there is another way, for a very useable proof of concept, that could be done by someone if they put their mind to it. Price would be about \$310 for the materials. Also, if it's for mobile use, then size is not as big a issue, although it would still be smaller then that HT.

First, take a \$50 Dallas TINI board which you can find at:

<http://www.ibutton.com/TINI/index.html>

As you know, this gives you a Java computer with ethernet interface, 1 wire interface such as for a weather station such as this one:  
<http://www.ibutton.com/weather/index.html>

dual serial port and expansion interface.  
Oh, and don't forget that most ham's can reprogram its 512K+ flash and it has plenty of ram.

Next, take a frequency agile Maxon \$239 data radio, such as this one:  
<http://www.multicom2way.com/maxon-sd125u.htm>

and hook it to the TINI. Besides the frequency control lines, you'll also want to hook the TINI up so it can control the power level of the radio. Plus, you'll want to hook up a one wire A/D to the RSSI output (signal strength) as well.

The other glue chips you'll want are a Bell 202 modem as well as a GMSK modem chip, depending on what (or both) modulation standards you might want. These parts should be under \$20.

So, besides frequency agility, you'll also have a radio that can sense signal strength and adjust its power to the exact level needed, and no more.

And the TNC software, at least the C code, already exists.... its being done on a PIC, so the TINI shouldn't have any problem at all.

But the real beauty here isn't the radios.... its the fact we will start work on a standard interface. Just as you could use a brand new Maxon data radio, you just as easily could use a \$41 ICOM 2 or 4AT HT such as:

<http://cgi.ebay.com/aw-cgi/eBayISAPI.dll?ViewItem&item=1200933890&ed=976679963>

All that would need to be changed is just the software driver in the TINI to map the BCD thumbwheel switches.

Now, with a GPS hooked to the TINI (via one of the two serial ports) and with the TINI able to sense signal strength, you'd have the core of some real progress in intelligent radios able to roam and reuse frequencies dynamically, be it based on signal contours or on actual location (via GPS).

Hey, sounds like a plan.

-Jeff

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### 437. [aprssi] Second try --> Any updates for WinAPRS in the works?

From: "KF6QDP" <kf6qdp@amsat.org>  
Date: Fri, 15 Dec 2000 23:05:54 -0800  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-124881-2000.12.16-01.18.43--lyris.aprssi@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi again,

I have not read anything regarding "WinAPRS" in quite a while. Are there any updates in the works? Or is "WinAPRS" slowly fading into oblivion? I was spoiled by the frequent and regular updates ;-)

Bruno, KF6QDP/VE2EQ  
Oceanside, California

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### 438. [aprssi] 9600 Baud Crap

From: "Steven J Adams" <adamss@datasys.net>  
Date: Sat, 16 Dec 2000 1:11:11  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-124882-2000.12.16-01.24.03--lyris.aprssi@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

There is something called TYPE ACCEPTANCE that has to be aproved by the FCC for every ham radio manufactured in quantity. It even applies to you if you build more than 5 (or I think 3) radios (or amplifiers) per year. It is nice to think that we are the ONLY radio service in existence, but in fact all frequencies are crowded. And whatever you build, or hack, can interfere with many different services depending on the hack. How many of you sit down with a spectrum analyzer and see what you are doing outside of the Ham radio band? With a digital signal, it is extremely important to look at harmonics.

It is great that we are allowed the privelege to experiment with radios, but the FCC rules do not allow the right to modify manufactured radios WITH the manufacturers approval! i.e. you can not expect the manufacturer to send you all literature to modify his radio beyond his FCC type acceptance. He then violates his agreement on the Type Acceptance. Let's get real people and accept there are laws beyond Amateur Radio that in effect. If our hobby is to recognize the importance of communications, then why we are



trying to ignore the rules of Type Acceptance, and interference, and other radio services?

There has been comments made that manufacturers should use flash ROMs. Now, exactly how do you expect that to pass FCC Type Acceptance??? Should the manufacturer say to the FCC if it passes now, it should pass no matter what anybody puts into the Flash Rom? And do you think the FCC would be stupid enough to think they are right? Come on people, the manufacturers are under much tighter restrictions than you and me. Why do you think radios are not "hacked" as often and as bad as the internet? Thank you FCC.

Wake up ham operators. Part 97 might control ham operators, but manufacturers have many, many other Parts of FCC rules to abide by, even if they are making a ham radio.

I've paid little attention to this argument about 1200 vs 9600 because the whole argument is comparing apples to oranges. Why don't you sit down and compare the apples (AFSK vs FSK) and then compare the oranges (1200 vs 9600)? Do not throw different bands, power levels, or anything else into the equation. FSK will win and 1200 will win. So why aren't we aren't doing 1200 FSK??? I know Bob B. is trying to figure out which mode is best for the popular Kenwoods, but Jeff King brings up a very valid argument when all you do is look at a Kenwood radio and compare 2 different modes at 2 different baud rates. That is a not a realistic look at anything, especially when you have not considered the doppler shift for the satellite in question.

To come up with realistic answers to satisfy everyone, we need to take a very slow approach, and go through every step one at a time. We need to take these baby steps to keep everyone at the same level, arguing the same thing. Instead, we are trying to compare 1200 AFSK to 9600 FSK on a Kenwood, and asking for any one to dispute these numbers.

Do not get me wrong, I'm a big supporter of Kenwood. I have the D-700, D-7A, TH-79, TM-733, and a TS-850. I really do love Kenwood, but that doesn't mean that I think they are perfect. I do see some room for improvement; especially in the D-7A and D-700. But, these are relatively new products, performing missions that no other manufacturer has attempted. And for this, I give them kudos.

Nothing personal Bob B., I understand why we did 1200 AFSK, but when Kenwood entered the equation, you had a chance to change to it to the best. Personally, I think you blew a good opportunity to change the status quo (thinking outside the box), but instead you opted to let Kenwood go with what was being used and now they and us are stuck to that standard.

End of argument, let's move on and let's get constructive.

KF4NAT  
Steve Adams  
Valdosta GA

---

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## 439. [aprssig] Re: Lat / Lon Program

From: WA8LMF1@aol.com  
Date: Sat, 16 Dec 2000 02:26:52 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124883-2000.12.16-01.42.14--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In a message dated 12/15/00 8:38:20 PM Pacific Standard Time,  
kjm@powerwerx.com writes:

<< Is there a program that I could put in a Lat/lon and derive the altitude of that point?

73, ken, KM6YH  
>>

You could download USGS DEMs (Digital Elevation Models) which are huge files containing triplets of data (lat, long, elevation). Typically each file is 1 minute of lat by 1 minute of long with a point every second. These public domain files are the "raw ingredients" of many topo map programs and radio coverage analysis programs and are downloadable from USGS websites.

--- OR ---

You can get Delorme's TopoUSA (The sister program to Street Atlas). This program contains relief maps for the entire USA on 6 CD-ROMS. On-screen, it presents a display that looks like standard USGS 1:250,000 topo maps overlaid with Delorme's street information which is much more current than the street data on "official" topo maps which is often decades out of date. You can zoom in and out and even render a 3D view of the area currently displayed. A status window shows the lat, long and ELEVATION for the current location of the mouse cursor. Like Street Atlas, it works with GPS receivers to show your current location. You can draw a line between two points on the map and then generate a cross-section profile (great for estimating if a VHF/UHF line-of-site path exists between two points) that shows the net rise or fall end-to-end.

The whole country with elevation data at 20-foot intervals is \$99

Info at:  
<http://www.delorme.com>

Stephen H. Smith  
Email: [wa8lmf@aol.com](mailto:wa8lmf@aol.com)  
Homepage: <http://members.aol.com/wa8lmf>

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#### 440. [aprssig] Re: Second try --> Any updates for WinAPRS in the works?

From: Mark Fellhauer <[sparkfel@primenet.com](mailto:sparkfel@primenet.com)>  
Date: Sat, 16 Dec 2000 01:48:00 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-124884-2000.12.16-02.01.54--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 01:05 AM 12/16/00, KF6QDP wrote:

>I have not read anything regarding "WinAPRS" in quite a while. Are there any  
>updates in the works? Or is "WinAPRS" slowly fading into oblivion? I was  
>spoiled by the frequent and regular updates ;-)

Good question. I doubt it's fading into oblivion, since, according to recent surveys, it's the most popular APRS software out there. But both Brothers Sproul have stated they are both quite busy lately - occupied by things other than APRS. You are correct though, an update hasn't been seen since June, if I remember correctly.... Just checked it, the 2.4.7 WinAPRS.exe has a date of June 4.

If they do release an update soon, I hope they address some long standing issues.

73,

Mark  
KC7BXS

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---

#### 441. [aprssig] Re: 9600 Baud Crap

From: WA8LMF1@aol.com  
Date: Sat, 16 Dec 2000 02:50:01 EST  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>

Message-ID: <LYR842-124885-2000.12.16-02.02.48--lyris.aprssi#tapr.org@lists.tapr.org>

Rendered body type: text/plain

In a message dated 12/15/00 11:22:37 PM Pacific Standard Time,  
adamss@datasys.net writes:

<< i.e. you can not expect the manufacturer to  
send you all literature to modify his radio beyond his FCC type acceptance.  
>>

The complaint was that Kenwood didn't place routine adjustment info in the  
owner's manual but rather forced you to buy the optional service manual to  
get this info; --- not that they refused to provide this info.

<< There has been comments made that manufacturerers should use flash ROMS.  
Now, exactly how do you expect that to pass FCC Type Acceptance??? Should  
the manufacturerer say to the FCC if it passes now , it should pass no  
matter what anybody puts into the Flash Rom? >>

Most commercial radios today DO use programmable ROMs to define most of the  
radio's functions.

<< Why do you think  
radios are not "hacked" as often and as bad as the internet? Thank you  
FCC. >>

Who are you kidding?? Have you listened above 27.405 (CB channel 40) and the  
lower part of ten meters??? Have you listened to the constant trucker traffic  
on VHF-marine radio channels hundreds of miles from any body of water???  
I saw a recent estimate ( I think from the FCC itself ) that one-third (!) of  
the radios operating in the commercial land mobile bands in Southern Cal are  
unlicensed. (The problem has become epidemic since the advent of synthesized  
radios that can be programmed onto any frequency on a moments notice.)

Stephen H. Smith  
Email: wa8lmf@aol.com  
Homepage: <http://members.aol.com/wa8lmf>

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---

## 442. [aprssi] Subject: Re: 9600bps radios

From: "Lee H. Dahlen" <kd4tqz@qsl.net>  
Date: Sat, 16 Dec 2000 05:42:54 -0500  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Cc: <aprssi@tapr.org>  
Message-ID: <LYR842-124888-2000.12.16-04.56.17--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

<Pasted>  
. Kenwood - if you're listening - that  
service manual was the LAST thing you'll ever sell me! It cost about \$1 a  
page. And if anyone owns a TM-V7A and wants a free copy of the service  
manual, I'll be GLAD to send them one, just to spite Kenwood!  
(reimbursement  
for postage appreciated... <g>)

<Snip>

Too bad you won't get to enjoy the new TS 2000 I and alot of others have  
ordered, since NOBODY else can match it (Features for price and no "Close  
to's" please in your rebuttal). Thanks for being one less space on the  
waiting list I am on to recieve mine!

oh and by the way, I would be real cautious about reproducing copyrighted

material on a public list. (that is insane for the demand you will get.)

Just my two cents worth.

Lee/KD4TQZ

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---

#### 443. [aprssig] By the way,

From: "Lee H. Dahlen" <kd4tqz@qsl.net>  
Date: Sat, 16 Dec 2000 05:44:39 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: <aprssig@tapr.org>  
Message-ID: <LYR842-124890-2000.12.16-05.00.31--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Ray, while you are at it, Hows about turning off the HTML in your Email  
"send" properties PLEASE??? Emails should be sent in plain text.

Lee/KD4TQZ

---

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---

#### 444. [aprssig] Re: GPS Mobile Antenna & Mounting

From: Eric Cuthbert <cuthbert@sympatico.ca>  
Date: Sat, 16 Dec 2000 07:29:45 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124894-2000.12.16-06.41.17--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

A good solution for a remote gps antenna ( at least for those that have  
a removable bnc type antenna ) is to purchase a ducky antenna extender  
from Radio Shack (don't ask me for the part number, it's on the net if  
you really need it). It costa about \$10. on clearance.

It has male and female bnc connectors and is about 8 feet long. This  
works well with the gps3+. I just Velcro the antenna end to the corner  
of my windshield and is virtually invisible to the public.

I'm not sure if the RG58 has any detrimental effects on the gps but I  
wouldn't think so as it just RX.

This worked well for me and am able to hide the gps out of sight.

--73-- Eric/va3ewc

Earl Needham wrote:

>  
> At 11:30 PM 12/15/00 -0500, Travis J. Maclay blasted the following out into  
> the ether:  
> ><snip>  
> >I know this has probably been covered in the past, but I recently purchased  
> >a new Toyota Camry. I am interested in permanently installing my Garmin 3+.  
> >I made a mount for it, but am in need of an external antenna. I'm thinking  
> >about running the cable through the headliner and mounting it to the glass  
> >just between the base of the rear view mirror and the headliner.  
> >  
> >Any thoughts or ideas on this method or a better method?  
>  
> I've found that GPS antennas don't seem to be too picky as long as  
> they're somewhere close to right side up. Your proposed location will  
> probably work OK, if the glass doesn't attenuate the signals. Another good  
> location is on top of the dashboard, or in a corner of the windshield.  
>  
> > Also, any  
> >recommendations on a good gain, low draw antenna w/ BNC connector?

> >  
> >Any help would be greatly appreciated. Travis  
>  
> <http://www.sawcenter.com/gpsant.htm> usually has a good antenna  
> available for a good price.  
>  
> 7 3  
> Earl  
>  
> Earl Needham, KD5XB <mailto:KD5XB@AMSAT.ORG>  
> Clovis, New Mexico DM84jk N34d 25.446m W103d 12.700m (or so)  
>  
> Pet peeve: breath is a noun, breathe is a verb (When you take a breath,  
> you breathe...)  
>  
> ---  
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--  
Where's Eric ?? <http://map.findu.com/va3ewc-9>  
  
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---

#### 445. [aprssig] Re: Subject: Re: 9600bps radios

From: Hamish Moffatt <[hamish@cloud.net.au](mailto:hamish@cloud.net.au)>  
Date: Sat, 16 Dec 2000 23:30:29 +1100  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapir.org](mailto:aprssig@lists.tapir.org)>  
Message-ID: <LYR842-124896-2000.12.16-06.45.26--lyris.aprssig#tapir.org@lists.tapir.org>  
Rendered body type: text/plain  
  
On Sat, Dec 16, 2000 at 05:42:54AM -0500, Lee H. Dahlen wrote:  
> Too bad you won't get to enjoy the new TS 2000 I and alot of others have  
> ordered, since NOBODY else can match it (Features for price and no "Close  
> to's" please in your rebuttal). Thanks for being one less space on the  
> waiting list I am on to recieve mine!  
  
Don't get carried away. Most FT-847 owners would have no reason  
to upgrade.. As I understand it, the 1.2GHz band is an optional  
extra, and most users who needed the sub-band 2m/70cm AM/FM  
transceiver would already have one.  
  
Hamish  
--  
Hamish Moffatt VK3SB <[hamish@debian.org](mailto:hamish@debian.org)> <[hamish@cloud.net.au](mailto:hamish@cloud.net.au)>  
  
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---

#### 446. [aprssig] Re: 9600bps radios

From: Mark Fellhauer <[sparkfel@primenet.com](mailto:sparkfel@primenet.com)>  
Date: Sat, 16 Dec 2000 05:30:05 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapir.org](mailto:aprssig@lists.tapir.org)>  
Message-ID: <LYR842-124898-2000.12.16-06.47.43--lyris.aprssig#tapir.org@lists.tapir.org>  
Rendered body type: text/plain  
  
At 04:42 AM 12/16/00, Lee H. Dahlen wrote:  
  
>Too bad you won't get to enjoy the new TS 2000 I and alot of others have  
>ordered, since NOBODY else can match it (Features for price and no "Close  
>to's" please in your rebuttal). Thanks for being one less space on the  
>waiting list I am on to recieve mine!  
  
Too bad the built-in 1200/9600 TNC on the TS-2000 has the exact same  
shortcomings as we've been discussing here from the reports I've  
gotten. This is a real pity - since Kenwood was aware of the problems and  
had a fresh slate to design this radio, but instead opted to cut corners  
and use stuff they already had on the shelf. What good is a built-in TNC  
on a \$2400 - \$2600 (MSRP) transceiver that's castrated on 9600 BPS?  
  
Having been burned many times by being a early adopter, I think most of us

will be happy to let you beta test Kenwood's latest offering. Perhaps you'll only have to pay \$60 plus shipping and send your TS-2000 to Kenwood for a month to fix all the bugs they find in the first release. ;-)

73,

Mark  
KC7BXS

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#### 447. [aprssig] Re: KPC-9612

From: Mark Fellhauer <[sparkfel@primenet.com](mailto:sparkfel@primenet.com)>  
Date: Sat, 16 Dec 2000 07:13:33 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-124900-2000.12.16-07.27.29--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

After much head scratching I finally figure out what was wrong. Couldn't switch to the high speed port because Pagemon was turned on. I totoally forgot that last time I used it we were testing a pager...

73,

Mark  
KC7BXS

At 10:54 PM 12/15/00, Mark Fellhauer wrote:

>But now I can't remember how to switch streams and issue a connect command  
>to the high speed port. I've tried the ~b and |b but it always goes to  
>the 1200 baud port.

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#### 448. [aprssig] Tracking

From: WB8STO (RICH) <[wilbur@one.net](mailto:wilbur@one.net)>  
Date: Sat, 16 Dec 2000 08:38:32 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-124906-2000.12.16-07.48.16--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi All,

I am new to APRS and this SIG and need some help with tracking.

In WINAPRS V2.4.6 how do I turn tracking on and off? The help file says to type a T in the station list but that does not work.

If I am a mobile do I set tracking for myself? How?

A few words on tracking in general would be helpful or please point me to a source of information.

TNX & 73  
Rich - WB8STO

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---

#### 449. [aprssig] YotReps: 12/16/00 14:36

From: <[AA3JY@winlink.org](mailto:AA3JY@winlink.org)>  
Date: Sat, 16 Dec 2000 14:39:00 -0000 (GMT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-124910-2000.12.16-09.14.56--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

YOTREPS  
16/12/2000

| No | CALL  | TIME | POSITION         | BOAT    | WIND | SWELL |         |      |  |
|----|-------|------|------------------|---------|------|-------|---------|------|--|
|    |       | UTC  | Lat. Lng.        | Cse Spd |      |       | Cld Bar | tend |  |
| 1  | AA3JY | 1436 | 40 09 N 075 34 W |         | NNW  | 10    |         | 75   |  |

This Radio Email Message is provided courtesy of the WinLink 2000 Global Gateway. This is a slow radio link. Please be brief with your reply. For information, visit <http://winlink.org/wl2k>.

---

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---

#### 450. [aprssig] Position Reports

From: <AA3JY@winlink.org>  
Date: Sat, 16 Dec 2000 14:39:00 -0000 (GMT)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: AA3JY@winlink.org  
Message-ID: <LYR842-124911-2000.12.16-09.18.41--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The following position report is provided by WinLink 2000.

This Radio Email Message is provided courtesy of the WinLink 2000 Global Gateway. This is a slow radio link. Please be brief with your reply. For information, visit <http://winlink.org/wl2k>.

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#### 451. [aprssig] Re: 9600bps radios, was Re: APRS Satellite Details

From: Roger Barker <[roger@peaksys.co.uk](mailto:roger@peaksys.co.uk)>  
Date: Sat, 16 Dec 2000 11:01:59 +0000  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-124892-2000.12.16-05.14.30--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In article <LYR1643-124774-2000.12.15-14.33.51--roger#peaksys.co.uk@lists.tapr.org>, Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)> writes

>On Fri, 15 Dec 2000, Roger Barker wrote:

>

>> >I think you should add "... in Europe" to that statement.

>>

>> I did put the 'E' on the TH-D7...

>

>Right, yes, your message was correct. I was not speaking directly to

>you, but all of us (and I am very guilty of this) sometimes fail to

>clarify the difference a letter makes and more importantly where the device

>is used and on what networks and what environment.

As a final comment - I think it would really benefit Kenwood if they did some sort of beta testing of the radios in the different environments in which they are going to be used. I found the problems with the TH-D7E when used in TNC mode literally within minutes of first getting my hands on one, and exactly the same thing happened with the TM-D700E.

--

Roger Barker, G4IDE - [roger@peaksys.co.uk](mailto:roger@peaksys.co.uk)  
For UI-View go to - <http://www.packetradio.org.uk>  
For WinPack go to - <http://www.peaksys.co.uk>

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---

#### 452. [aprssig] Re: Unusual traffic

From: Skip Allison <sallison@megsinet.net>  
Date: Sat, 16 Dec 2000 10:06:39 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124912-2000.12.16-10.20.11--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

David VanHorn wrote:

>  
> Just watching the mail here, I ran across an exchange in the APRS messages  
> between M1DTA and M0NIS, M1CXC, and M1DOZ-7  
>  
> Are these actually ham stations?  
>  
> They show up in a web search under <http://www.canaprs.net/locate/m1dta>  
>

What is [www.canaprs.net](http://www.canaprs.net)? I assume it's something like FINDU, but it didn't seem to find any US calls. What calls does it show? Apparently Canadian and UK. And it must get web stuff since it got the UK calls.

Skip  
K9SA

---

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#### 453. [aprssig] Re: Unusual traffic

From: Roger Barker <roger@peaksys.co.uk>  
Date: Sat, 16 Dec 2000 16:27:27 +0000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124913-2000.12.16-10.39.58--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In article <LYR1643-124912-2000.12.16-10.20.11--roger#peaksys.co.uk@lists.tapr.org>, Skip Allison <sallison@megsinet.net> writes

>David VanHorn wrote:  
>>  
>> Just watching the mail here, I ran across an exchange in the APRS messages  
>> between M1DTA and M0NIS, M1CXC, and M1DOZ-7  
>>  
>> Are these actually ham stations?  
>>  
>> They show up in a web search under <http://www.canaprs.net/locate/m1dta>  
>>  
>  
>What is [www.canaprs.net](http://www.canaprs.net)? I assume it's something like FINDU, but it  
>didn't seem to find any US calls. What calls does it show? Apparently  
>Canadian and UK. And it must get web stuff since it got the UK calls.

If you go to the main page (<http://www.canaprs.net/>), and follow the links under "List of APRS Stations Heard" there are a good number of US calls.

--

Roger Barker, G4IDE - [roger@peaksys.co.uk](mailto:roger@peaksys.co.uk)  
For UI-View go to - <http://www.packetradio.org.uk>  
For WinPack go to - <http://www.peaksys.co.uk>

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---

#### 454. [aprssig] RE: Unusual traffic

From: Rich Mulvey <mulveyr@iname.com>  
Date: Sat, 16 Dec 2000 11:30:16 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124915-2000.12.16-10.50.17--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 15-Dec-00 Ciemon G0TRT wrote:

> Yes Dave they are.  
>  
> When the G callsigns ran out over here in the UK, we started using M. I  
> guess you're seeing them thru an IGATE



Actually, I was out in my car on Friday with the D7, and heard an M callsign direct. I was a little surprised, to say the least, since I'm in upstate New York, USA. :-)

- Rich

--

Catapultam habeo. Nisi pecuniam omnem mihi dabis, ad caput tuum saxum immane mittam.

Where's Rich? <http://www.findu.com/cgi-bin/find.cgi?aa2ys>

---

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---

#### 455. [aprssig] RE: Unusual traffic

From: "Clayton H. Owen" <[aa3jy@erols.com](mailto:aa3jy@erols.com)>  
Date: Sat, 16 Dec 2000 11:57:41 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-124916-2000.12.16-11.10.56--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-124916-2000.12.16-11.10.56--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

> Actually, I was out in my car on Friday with the D7, and heard an M callsign  
> direct. I was a little surprised, to say the least, since I'm in upstate New  
> York, USA. :-)

I guess we're not in 'Kansas anymore Toto'...<g>

---

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---

#### 456. [aprssig] Re: By the way,

From: [RMckni8527@aol.com](mailto:RMckni8527@aol.com)  
Date: Sat, 16 Dec 2000 12:11:38 EST  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: [aprssig@tapr.org](mailto:aprssig@tapr.org)  
Message-ID: <[LYR842-124921-2000.12.16-11.24.22--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-124921-2000.12.16-11.24.22--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

In a message dated 12/16/00 2:58:10 AM Pacific Standard Time, [kd4tqz@qsl.net](mailto:kd4tqz@qsl.net) writes:

> Ray, while you are at it, Hows about turning off the HTML in your Email  
> "send" properties PLEASE??? Emails should be sent in plain text.  
>  
> Lee/KD4TQZ  
>

I've looked at every menu and option I can find, but I see nothing that allows me to do that in AOL v 6. If anyone on the SIG can answer this question it would be appreciated. Sending it to AOL tech support is absolutely a waste of time, they never seem to actually read the question and it's always a canned reply. I am considering dumping AOL altogether.

---

#### 457. [aprssig] Re: By the way,

From: "Brian B. Riley" <[brianbr@macconnect.com](mailto:brianbr@macconnect.com)>  
Date: Sat, 16 Dec 2000 12:39:51 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: <[aprssig@tapr.org](mailto:aprssig@tapr.org)>  
Message-ID: <[LYR842-124925-2000.12.16-11.52.39--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-124925-2000.12.16-11.52.39--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

That is a known "problem" in AOL v6.0 ... there is a workaround around somewhere but I hear it is tricky.

-----Original Message-----

From: [bounce-aprssig-7389@lists.tapr.org](mailto:bounce-aprssig-7389@lists.tapr.org)  
[<mailto:bounce-aprssig-7389@lists.tapr.org>]On Behalf Of  
[RMckni8527@aol.com](mailto:RMckni8527@aol.com)  
Sent: Saturday, December 16, 2000 12:12 PM  
To: TAPR APRS Special Interest Group  
Cc: [aprssig@tapr.org](mailto:aprssig@tapr.org)

Subject: [aprssid] Re: By the way,

In a message dated 12/16/00 2:58:10 AM Pacific Standard Time,  
kd4tqz@qsl.net  
writes:

Ray, while you are at it, Hows about turning off the HTML in your Email  
"send" properties PLEASE??? Emails should be sent in plain text.

Lee/KD4TQZ

I've looked at every menu and option I can find, but I see nothing that  
allows me to do that in AOL v 6. If anyone on the SIG can answer this  
question it would be appreciated. Sending it to AOL tech support is  
absolutely a waste of time, they never seem to actually read the  
question and  
it's always a canned reply. I am considering dumping AOL altogether.

---

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---

#### 458. [aprssid] Re: Second try --> Any updates for WinAPRS in the works?

From: Guy Story <kc5goi@tapr.org>  
Date: Sat, 16 Dec 2000 13:25:59 -0600 (CST)  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Cc: <aprssid@lists.tapr.org>  
Message-ID: <LYR842-124935-2000.12.16-13.40.38--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

No updates as of yet. Mark has started a new job at Rutgers and The  
university made some changes that is keeping Keith busy as well. WinAPRS  
is not fading away. Sometimes regular jobs can get in the way of fun.

73,

Guy Story  
KC5G0I  
kc5goi@tapr.org  
<http://www.kc5goi.net>

---

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---

#### 459. [aprssid] Re: By the way,

From: WA8LMF1@aol.com  
Date: Sat, 16 Dec 2000 14:30:01 EST  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-124936-2000.12.16-13.44.28--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In a message dated 12/16/00 9:20:19 AM Pacific Standard Time,  
RMckni8527@aol.com writes:

<< I've looked at every menu and option I can find, but I see nothing that  
allows me to do that in AOL v 6. >>

This is one of the numerous reasons NOT to upgrade to AOL 6.0 . The previous  
versions of AOL used a partial HTML format when sending AOL-to-AOL but were  
automatically stripped to pure text when sending to non-AOL addresses. Ver  
6.0 forces HTML to everyone and is raising havoc with numerous lists  
everywhere.

This is in addition to the added hooks in their software that allow AOL to  
place ads along the top of the web browser when urls corresponding to their  
marketing partners are accessed. That is, this happens when you access the  
web; not their internal proprietary content.

There were so many obnoxious additions purely to force more junky advertising  
in your face that I "downgraded" back to Ver 5.0 and have been strongly

discouraging anyone from upgrading to V. 6.0

Stephen H. Smith  
Email: wa8lmf@aol.com  
Homepage: <http://members.aol.com/wa8lmf>

-----  
| Radio Communications Systems      Personal Computers  
|                   Consulting and Systems Integration  
| GPS Custom Mapping      &      Radio Coverage Surveys  
| File Conversions      MS-Windows Setups      VISCII Fonts  
|-----

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---

#### 460. [aprssig] My ideas on AVRS

From: RZG <[gevaryah@netaxs.com](mailto:gevaryah@netaxs.com)>  
Date: Sat, 16 Dec 2000 14:45:11 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-124937-2000.12.16-13.57.40--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

A few weeks ago, I wrote a really long email that I intended to post to this SIG, but at about 6 pages, I'm summerizing it instead. The full text is at <http://www.netaxs.com/~gevaryah/avrs.txt> .

\* AVRS, In my opinion, should be a cellular-type system with both direct VoIP connects and conference servers running reflector programs.

\* AVRS should support multiple servers (that is "nodes" or "cells") in the same general area, to allow more than the typical single channel provided by a pc soundcard. This would be easy with an ?AVRS? type query.

\* AVRS should be implemented with free/non-proprietary software, if possible; Speakfreely/Linux as used by the IRLP is the most obvious choice, and Open Source allows the software to be modified to our needs.

\* AVRS channels should provide posit/phg information for their AVRS setups, as well as provide announcements over the simplex channel (when requested to link, etc) to allow the user to determine if he is in radio range of the node.

\* The system should be as decentralized as possible, in order to have no single point of failure. Nodes may have "hosts" type files listing the IPs of the various conference servers; no single server should be chosen to host all internet conferences.

This is a quick summary of what I go through in the full text. <http://www.netaxs.com/~gevaryah/avrs.txt> , again, is the full email.

I'll update the file based on the responses that I get.

--RZG (KB3EHW)

---  
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---

#### 461. [aprssig] Re: KPC3+ question

From: Skip Allison <[sallison@megsinet.net](mailto:sallison@megsinet.net)>  
Date: Sat, 16 Dec 2000 15:00:53 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-124939-2000.12.16-15.13.58--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Add his call to the suplist. Then turn on llist. Llist on keeps any station on the llist from digipeating. If you also don't want to see him, turn on supcalls. That will keep him from being monitored.  
cmd: supc +N4LID

cmd: llist on  
cmd: sup on

For more info type :  
?llist, ?supc, or ?sup

Skip  
K9SA

"Paul E. Knupke, Jr." wrote:

>  
> I can't locate my KPC manual. What are the commands used to block the TNC  
> from retransmitting a particular station?  
>  
> I think the commands are SUPLIST and SUPCALL but I need to know the format.  
>  
> Thanks  
> Paul  
> N4PK  
>  
> (N4PK-10 digi Clearwater, FL)  
>  
> Paul E. Knupke, Jr.  
> pk@ij.net  
> Largo, FL ICQ# 605259  
> -----  
> Amateur Radio: N4PK  
> ASM WCF Section  
> N4PK/R 442.150 (103.5)  
> Clearwater, FL  
>  
> ---  
> You are currently subscribed to aprssig as: sallison@megsinet.net  
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> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

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## 462. [aprssig] Re: Tracking

From: Skip Allison <sallison@megsinet.net>  
Date: Sat, 16 Dec 2000 15:13:11 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124940-2000.12.16-15.26.47--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

"WB8STO (RICH)" wrote:

>  
> Hi All,  
>  
> I am new to APRS and this SIG and need some help with tracking.  
>  
> In WINAPRS V2.4.6 how do I turn tracking on and off? The help file says to type a T in the station  
list but that does not work.  
>  
> If I am a mobile do I set tracking for myself? How?  
>  
> A few words on tracking in general would be helpful or please point me to a source of information.  
>

Select the station you want to track by clicking on the icon on the  
map. Then go to DISPLAY and select Auto Scroll Moving Maps. WinAPRS  
will then follow the station with the map. To track yourself, just  
select your own call.

Skip  
K9SA

---

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---

## 463. [aprssig] Re: Cable Entrance

From: Arte Booten <n2zrc@webspan.net>  
Date: Sat, 16 Dec 2000 09:56:20 -0500

To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-124946-2000.12.16-16.14.54--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi Claude,

You wrote:

>... antenna cables, weather instrument cables, etc were run though a  
>slightly raised window, which was then stuffed with rolled up newspa-  
>pers, rags, etc.

Although you didn't say what type of window it is, I suspect it's probably a double-hung casement type (top and bottom windows that open by raising or lowering up and down). Go to your local home supply store and find tongue-and-groove hardwood flooring. Get several pieces that are the width of your window. Then get some foam weatherstripping.

Place two pieces of the flooring together (tongue in groove) and drill holes at the intersection of the two pieces that are slightly larger than the cables you need to route through them. Carefully line these holes with the foam weatherstripping. On the opposite sides (where the half-holes aren't), cut off the tongue and grooves so it's either flat or is at the same angle as the bottom of the window. Put some more of the foam weatherstripping on these surfaces. Finally, cut them to an appropriate length so as to be as tight a fit in the window frame as you can while still being able to insert them.

Put the "bottom" piece in place, lay your cables in the half-holes, then put the "top" piece into place and lower it onto the other half. You'll probably need to put some "sweep-type" weatherstripping on the top of the bottom sash to help seal the now-not-sealed space between it and the glass of the top sash.

As an alternative (and somewhat safer), take an appropriately sized piece of plywood, face the outside with some sheet copper, drill holes to mount PolyPhasers (or whichever lightning protectors you choose, and route all cables through this bulkhead. Ground it with THICK (3/0 or better) solid wire (NOT stranded!) or other appropriate conductor. This should not be attached to your RF grounding system, but to it's own system. It's much more expensive than my first suggestion, but helps alleviate the possibility of frying your equipment, house and family. 73

+-----+  
|Arte Booten <n2zrc@arrl.net> AEC for Digital Services, NYC ARES/RACES|  
|Riverdale, New York [FN30bu] !4052.71N/07354.06WNPHG5370/A=00240|  
|Packet: N2ZRC@KB2VLX.#BRONX.NY.USA.NA HTX-202/RS Brick/KPC-3 6.0/X-510|  
|PGP Key Fingerprint: D73E B889 C630 6F4A F31F 3083 56BD 0AAD 9996 3B03|  
+-----+

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---

#### 464. [aprssid] RE: X/Y coordinates on a graphic file (was: continuous bickering)

From: "Earl S. Garber" <n3eg@teleport.com>  
Date: Sat, 16 Dec 2000 17:04:47  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-124954-2000.12.16-17.12.51--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I tried it recently, and it works great - especially when you have cheapo laptops which barely run Windows and you want to import a Precision Map screen from your other "full-featured" computer. I've also scanned maps and used them in WinAPRS this way. Wouldn't this be great for a public service event - to have the organizers see THEIR event map on your screen along with everyone's position, or to have a standard map used on every PC involved in the event?

...Earl, N3EG

---

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---

#### 465. [aprssid] Garmin GPS III @ Wall-Mart

From: "Richard Amirault" <ramirault@erols.com>  
Date: Sat, 16 Dec 2000 18:45:28 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124959-2000.12.16-17.59.26--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Happened to be in the local Wall-Mart today (looking for a pair of binoculars) and couldn't pass up a new Garmin GPS III (to replace my ancient 45) for \$147.00 !! This is the III not the III+ This proved to be a direct replacement for my 45 (BNC antenna connector, and power/data jack) and I had it up and running on my D-700 before I left the parking lot!

Richard Amirault  
MA, USA  
www.erols.com/ramirault

N1JDU

Boston,

"Go Fly A Kite"

---

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---

#### 466. [aprssig] Re: Garmin GPS III @ Wall-Mart

From: Gerry Creager N5JXS <gerry@cs.tamu.edu>  
Date: Sat, 16 Dec 2000 18:47:14 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124960-2000.12.16-19.00.03--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I got a call from a friend telling me that Office Depot has 'em on blow-out for \$99.88... I checked and picked one up (the last one in College Station, Texas).

--

Richard Amirault wrote:

>

> Happened to be in the local Wall-Mart today (looking for a pair of  
> binoculars) and couldn't pass up a new Garmin GPS III (to replace my ancient  
> 45) for \$147.00 !! This is the III not the III+ This proved to be a  
> direct replacement for my 45 (BNC antenna connector, and power/data jack)  
> and I had it up and running on my D-700 before I left the parking lot!

--

Gerry Creager -- gerry@cs.tamu.edu  
Network Engineering |Research focusing on  
Academy for Advanced Telecommunications |Satellite Geodesy and  
and Learning Technologies |Geodetic Control  
Texas A&M University 979.458.4020 (Phone) -- 979.847.8578 (Fax)

---

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---

#### 467. [aprssig] callsign lookup in WinAPRS

From: "Chris Schwab" <1schwabi@tampabay.rr.com>  
Date: Sun, 17 Dec 2000 00:51:25 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-124999-2000.12.17-00.04.33--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

All..

Which file should I be using in the .zip file when I download the data from the FCC?

I've tried making indexes on all of them, and I get nothing..

73!

Chris N4BSA

---

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---

#### 468. [aprssig] RE: callsign lookup in WinAPRS

From: "Chris Schwab" <1schwab1@tampabay.rr.com>  
Date: Sun, 17 Dec 2000 01:06:56 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125001-2000.12.17-00.19.41--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Ok.. Scratch that last one.

I inadvertantly had two copies of WinAPRS running & didn't realize it.

Works like a champ now!

Chris

-----Original Message-----

From: bounce-aprssi-2015@lists.tapr.org  
[mailto:bounce-aprssi-2015@lists.tapr.org]On Behalf Of Chris Schwab  
Sent: Sunday, December 17, 2000 12:51 AM  
To: TAPR APRS Special Interest Group  
Subject: [aprssi] callsign lookup in WinAPRS

All..

Which file should I be using in the .zip file when I download the data from the FCC?

I've tried making indexes on all of them, and I get nothing..

73!

Chris N4BSA

---

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---

#### 469. [aprssi] Re: Garmin GPS III @ Wall-Mart

From: "Brent Hildebrand" <bhildebrand@earthlink.net>  
Date: Sat, 16 Dec 2000 22:25:36 -0800  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Cc: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-125002-2000.12.17-00.39.23--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

OfficeDepot IS blowing out the Garmin GPS III+ for \$99 and the eTrex for \$69. I just visited our local OD this PM and they were out of III+. "Some Guy" came in a cleaned them out of III+'s. I bought the display eTrex for \$58. They won't last!

----- Original Message -----

From: "Gerry Creager N5JXS" <gerry@cs.tamu.edu>  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Cc: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Sent: Saturday, December 16, 2000 4:47 PM  
Subject: [aprssi] Re: Garmin GPS III @ Wall-Mart

> I got a call from a friend telling me that Office Depot has 'em on  
> blow-out for \$99.88... I checked and picked one up (the last one in  
> College Station, Texas).  
> --  
> Richard Amirault wrote:  
> >  
> > Happened to be in the local Wall-Mart today (looking for a pair of  
> > binoculars) and couldn't pass up a new Garmin GPS III (to replace my ancient  
> > 45) for \$147.00 !! This is the III not the III+ This proved to be a  
> > direct replacement for my 45 (BNC antenna connector, and power/data jack)  
> > and I had it up and running on my D-700 before I left the parking lot!  
>  
> --  
> Gerry Creager -- gerry@cs.tamu.edu  
> Network Engineering |Research focusing on  
> Academy for Advanced Telecommunications |Satellite Geodesy and  
> and Learning Technologies |Geodetic Control  
> Texas A&M University 979.458.4020 (Phone) -- 979.847.8578 (Fax)  
>

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#### 470. [aprssig] Re: Garmin GPS III @ Wall-Mart

From: "Dick Stanich" <dstanic@c2i2.com>  
Date: Sun, 17 Dec 2000 6:52:25  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125013-2000.12.17-07.04.31--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 12/17/00, "Brent Hildebrand" <bhildebrand@earthlink.net> wrote:  
> OfficeDepot IS blowing out the Garmin GPS III+ for \$99 and the eTrex for =  
> \$69. I just visited our local OD this PM and they were out of III+. =  
> "Some Guy" came in a cleaned them out of III+'s. I bought the display =  
> eTrex for \$58. They won't last!

I hate to tell you guys what I paid for 2 GPS III Pluses a year ago! Now is the time to buy!!!

Dick, KB7ZVA

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#### 471. [aprssig] AFilter 2.02.14 released

From: Bill Diaz <billdiaz@megsinet.net>  
Date: Sun, 17 Dec 2000 06:59:53 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125014-2000.12.17-07.13.47--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

A new version of AFilter is available for download at  
<http://www.c2i2.com/~dstanic> Thanks to Dick, KB7ZVA for beta testing and providing the download site.

This version includes new features, and improvements.  
Sound support.

NWS-WARN and Emergency audible 2 tone message alerts.

Delays relay of packets to client application after NWS-WARN or emergency message is received. This may help to eliminate unhandled exceptions that may occur when WinAprs redraws the map after receiving these messages. The delay time is configurable.

Improved visual indication of connections and Auto-Reconnect status.

Improved error detection. Passes payloads containing 8 bit characters.

Improved Mic-E message decoding.  
Correctly decodes custom status.  
Displays decoded packet in the data window.

Improved logging capability.  
IGATES can now log outgoing traffic that is rejected by AFilter.  
Rejected incoming packets can be logged. This log will include packets outside your filters and errors.  
Log all packets contain text contained in a user supplied list.  
Log all message traffic.  
Improved viewing of log files. Files can be sorted, viewed in hex, filtered.

Bill KC9XG

Display current vehicle location :  
<http://www.findu.com/cgi-bin/find.cgi?KC9XG-14>



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---

#### 472. [aprssig] Re: callsign lookup in WinAPRS

From: "hasan schiers" <[schiers@netins.net](mailto:schiers@netins.net)>  
Date: Sun, 17 Dec 2000 07:46:32 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-125017-2000.12.17-08.04.04--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The only file you need is EN.DAT from the big fcc download. Put it in  
winaprs\data...then (assuming you have done your callbook settings correctly  
inside winaprs), run the index from Settings Callbook Index (button)

hasan schiers  
[schiers@netins.net](mailto:schiers@netins.net)  
N0AN

----- Original Message -----

From: "Chris Schwab" <[1schwab1@tampabay.rr.com](mailto:1schwab1@tampabay.rr.com)>  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Sent: Saturday, December 16, 2000 11:51 PM  
Subject: [aprssig] callsign lookup in WinAPRS

> All..  
>  
> Which file should I be using in the .zip file when I download the data  
from  
> the FCC?  
>  
> I've tried making indexes on all of them, and I get nothing..  
>  
> 73!  
> Chris N4BSA  
>  
>  
> ---  
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#### 473. [aprssig] Re: Garmin GPS III @ Wall-Mart

From: [Kd4emi@aol.com](mailto:Kd4emi@aol.com)  
Date: Sun, 17 Dec 2000 09:43:40 EST  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-125023-2000.12.17-08.56.08--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Gee I havent looked at GPS systems in years. How about the GPS 12MAP vs the  
GPS III+. Can anyone comment...?  
Is this unit on sale also ?

I just wonder also, does this mean that even more exciting GPS systems are  
slated for the new year and perhaps I should wait.

Decisions decisions. Any help appreciated but I am heading to Office Depot  
to "check it out". My wife says that is the same as "I am going to buy".  
But any additional info appreciated before the trip.  
Mike KD4EMI

---

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#### 474. [aprssig] Re: Garmin GPS III @ Wall-Mart

From: "Brent Hildebrand" <bhildebrand@earthlink.net>  
Date: Sun, 17 Dec 2000 07:33:04 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125026-2000.12.17-09.45.45--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

OD does not sell the 12MAP to my knowledge. The price on these receivers at OD was \$xx.88 which is OD's way of saying we are closing out on these items. Good luck finding any...

----- Original Message -----

From: <Kd4emi@aol.com>  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Sent: Sunday, December 17, 2000 6:43 AM  
Subject: [aprssig] Re: Garmin GPS III @ Wall-Mart

> Gee I havent looked at GPS systems in years. How about the GPS 12MAP vs the  
> GPS III+. Can anyone comment...?  
> Is this unit on sale also ?  
>  
> I just wonder also, does this mean that even more exciting GPS systems are  
> slated for the new year and perhaps I should wait.  
>  
> Decisions decisions. Any help appreciated but I am heading to Office Depot  
> to "check it out". My wife says that is the same as "I am going to buy".  
> But any additional info appreciated before the trip.  
> Mike KD4EMI  
>  
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## 475. [aprssig] Re: 9600bps radios, was Re: APRS Satellite Details

From: Bob Bruninga <bruninga@usna.edu>  
Date: Sun, 17 Dec 2000 12:09:33 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125049-2000.12.17-11.21.42--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> > > Jeff said:.... "that the response on 1200bps AFSK should be  
> > > similar to 9600bps FSK, in a well designed 9600bps radio."  
> >  
> > Bob still thinks this: "...is incorrect. THough I too am dying to  
> > know the right answer..."

Jeff continues:

> Here is a message I shared with a few people off SIG, although I'm sure  
> you'll find a reason this company is wrong. That's the nice thing about  
> pseudo science, you can define your conclusions and then construct your  
> proof around it...  
>  
> There may be a 7db difference, but in reality we are looking at the Kenwood  
> being at a 15db DISADVANTAGE of where it really should be at. The  
> 9.6kbaud should outperform the 1200baud AFSK by a significant margin.  
> - Jeff

Sorry, jeff, but you need to do some simple reality checks on such claims.  
Now you claim that 9600 should not just be equal, but outperform 1200 by a  
big margin (15 dB). This is impossible.

I measured 0.2 uv at 1200 and 0.5 uv at 9600 for the Kenwood. If your  
claim that a "well designed" radio should be able to do 15 dB better than  
that, then that means it can reliably decode 9600 baud at less than 0.1 uv  
or better than -128 dBm.... wow....

As you know, the thermal noise floor (noise of atoms) is -132 dBm. (and no  
receiver on earth can do better), yet you are claiming reliable  
non-coherent FSK detection is possible with only 4 dB Eb/N0 which is just  
not possible.

I'm sorry you are still throwing digs into your claims, but this is not rocket science nor "pseudo science".

Maybe the Europeans who have a lot more practical experience with 9600 baud would care to comment on the sensitivity of typical "good quality" 9600 baud implementations... Even the USA packet folks I have spoken with have said that their experience with 9600 baud is worse than 1200 over the same path, power, and antennas.

I am by no means claiming the Kenwood is perfect, nor better than any other radio. But the .2 and .5uv measurements looked pretty good to me. Compare those to any other radio that the ARRL lab has tested...

I could have even had a dB or so error in my simple measurements. I am only trying to find out what is out there in common amateur practice so that we can design a satellite to close the link to the majority of users. As such I welcome other measurements and data.

I did go back in my log and found where I measured -117 dBm for a KPC-3 with a commercial radio, about 0.3 uv at 1200 baud. So now we have 3 data points. It would be nice if you had the time to measure your TEKK/TNC and give us another data point.

de WB4APR, Bob

Here is the test I performed to get my readings...

- 1) Generate packets from a given transmitter
- 2) insert attenuation until the given receiver is getting 9 out-of-ten
- 3) Note the S-meter reading or other means for quantifying the level.
- 4) Inject a known calibrated sig gen until you get the same reading and that should be approximately the equivalent sensitivity.

to be sure there was no leakage, we had the transmitter at least a fraction of a mile away.

---

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## 476. [aprssig] Re: 9600 Baud Crap

From: Bob Bruninga <bruninga@usna.edu>  
Date: Sun, 17 Dec 2000 12:39:02 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125050-2000.12.17-11.51.48--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Sat, 16 Dec 2000, Steven J Adams wrote:

- > Nothing personal Bob B., I understand why we did 1200 AFSK, but when
- > Kenwood entered the equation, you had a chance to change to it to the best.
- > Personally, I think you blew a good opportunity to change the status quo
- > (thinking outside the box), but instead you opted to let Kenwood go with
- > what was being used and now they and us are stuck to that standard.

Hummh? When Kenwood entered the equation, who would buy an expensive radio if it didnt work with existing APRS? Conversely, they \*did\* bring 9600 baud into the status quo.

Something that USA Amateurs had refused to use (in general) even 18 years after 9600 baud TNC's were available. So Kenwood DID provide us the springboard to move to 9600, and finally bring the USA packet community out of the dark ages. No, it is not perfect, but for the first time, anyone can have a 9600 baud packet system without doing major surgery on their radios.

AND with the five 9600 baud packet satellites flying overhead gave everyone on the planet 25 times a day, a 9600 baud test source no matter where they lived. Since 1998 I have been using the THD7 to demonstrate 9600 baud packet reception at Hamfests, DCC, and AMSAT meetings... So I do not understand your above comment about what they could have done "right"?

>From the beginning of APRS in 1992, Adding APRS as just a 0.1 second noise burst on a voice radio seemed like the "right thing". But at

that point, we had 18 years of positive proof that amateurs in the USA would not modify their radios to 9600 baud and 9600 baud just cannot go into a radio via the Mic hack.

But now we have a Kenwood with built-in 9600 baud and now we can do what APRS wanted all along... Send out a tiny noise burst at the end of a voice transmission. Yet still NO ONE does this... because it requires someone to modify a radio from 9600 baud to put at the repeater site to pull this noise burst off the repeater input and send it over to the APRS frequency..

Both the D700 and D7(g) can operate in this "PTT" 9600 baud mode.

What about the ALinco? Can it do APRS PTT mode? Since it is not dual band, this would be a great sales advantage since it could then be used as a combined single channel voice/APRS tracking radio at the same time... I guess I need to go buy one of these. I am amazed that we don't see more about them here on the SIG?

bob

---

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---

#### 477. [aprssig] N8YLS in ohio

From: David VanHorn <dvanhorn@cedar.net>  
Date: Sun, 17 Dec 2000 13:51:34 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125064-2000.12.17-13.06.25--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Does anyone know N8YLS in ohio?  
His WX station was reporting 272MPH winds.  
I do hope that's a bug :)

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

---

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#### 478. [aprssig] APRS+SA Listserver??

From: Alan B Schulman <n41bl@arrl.net>  
Date: Sun, 17 Dec 2000 12:34:19 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125070-2000.12.17-13.48.14--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Is there a listserver for APRS+SA?? I tried using  
majordomo@k8sn.org with subscribe APRS+SA, believing  
that I followed the instructions from TAPR. Is it  
defunct?? Is there another?? Did I do something  
wrong??

thanx,,,

Alan n41bl

---

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#### 479. [aprssig] Re: 9600bps radios, was Re: APRS Satellite Details

From: Timothy J Salo <tjs@tc.umn.edu>  
Date: Sun, 17 Dec 2000 13:58:58 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125072-2000.12.17-14.12.23--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> Date: Fri, 15 Dec 2000 10:00:13 -0500 (EST)  
> From: Bob Bruninga <bruninga@usna.edu>  
> Subject: [aprssig] Re: 9600bps radios, was Re: APRS Satellite Details  
> [...]  
> In the USA, the THD7 has never been advertised for "normal" packet. The  
> ads always showed that it was an APRS radio and in the first bullet under  
> "Features" it always said "1 packet, 1 frame, 256 byte" compliant with  
> the AX.25 protocol. Yes, you can use it for "normal" packet, but it has  
> never been sold or advertised for that application.  
> [...]

It is not clear to me that this is the case. See Kenwood's TH-D7A Web at

[http://www.kenwood.net/products/index.cfm?AMA=open&ama\\_hheld=open&radio=TH-D7AG&selection=Amateur](http://www.kenwood.net/products/index.cfm?AMA=open&ama_hheld=open&radio=TH-D7AG&selection=Amateur)

The first paragraph states:

" ... The TH-D7AG is equipped with a built-in AX.25 TNC for simple packet operation or to be used with a handheld GPS (NMEA-0813 compatible) as a full function APRS(TM) Automatic Packet/Position Reporting System. ... "

The third and fourth items in the bullet list are:

- o Built-in 1200/9600 baud TNC
- o Built-in APRS(TM) operating software

In both cases the TNC capability is presented before the APRS capability.

-tjs

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---

## 480. [aprssig] APRS and GPRS

From: "Jim Andrews" <[jim@markfield.u-net.com](mailto:jim@markfield.u-net.com)>  
Date: Sun, 17 Dec 2000 20:42:55 -0000  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-125076-2000.12.17-14.55.02--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-125076-2000.12.17-14.55.02--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Hi,

Has anyone looked into using the newly launched GSM GPRS facilities for transmission of APRS information?

I have a project on the go to provide vehicle location information in hostile terrain (west coast of Scotland!) where there is reasonable GSM coverage but to provide amateur cover would need a significant number of temporary hilltop sites.

Anyone any information?

Jim

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## 481. [aprssig] ATTN Pilots; International Air Traffic Route Freqs ?; ACRS ?

From: [WA4TKGMatt@aol.com](mailto:WA4TKGMatt@aol.com)  
Date: Sun, 17 Dec 2000 17:29:58 EST  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-125085-2000.12.17-16.42.40--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-125085-2000.12.17-16.42.40--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Sorry for the bandwidth, but the SIG is a bit slow today anyway..

(I'm not familiar with ACRS, but I think it's basically APRS for Aircraft tracking ?

Not that I really want to track aircraft in flight, but that WOULD be cool to look @ once in a while I suppose)



In advance, for your help, thanks much!

Travis  
N4TJM

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#### 484. [aprssig] Re: Igates and APRSD

From: Valentino Sarro <sarro@home.com>  
Date: Sun, 17 Dec 2000 19:13:39 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125123-2000.12.17-20.28.55--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

the APRSD software is available at:

<http://wa4dsy.radio.org/Files/aprds214.tar.gz>

Cheers,  
Tino, VE6SZR  
Calgary, Alberta

P.S. Merry Christmas.

"Travis J. Maclay" wrote:

>  
> Hello SIG,  
>  
> I have a question that has been lingering in my mind for quite some time and  
> have searched, but cannot find an answer to. I am very interested in  
> putting an IGate on the air here in Jacksonville, Florida, but am lacking  
> info on how to best accomplish this. I have recently installed Linux  
> Mandrake on a machine, but do not know where to get a copy of APRSD. I have  
> been told this is the software that would work best for me. I have  
> experimented vaguely w/ the WinAPRS "igate" option, but am still kinda lost.  
>  
> I have seen this question regarding IGates posted three times on here in the  
> past 6 months (according to my archives) and none of the three separate  
> posts from people were replied to on the SIG. Not sure if there is a great  
> influx of help in this area, but if so, could you reply on the SIG for  
> anyone else who may be interested in serving their local RF area w/ data  
> from TCP/IP.  
>  
> Again, I am new to this in many respects, so the more details, the better.  
> Maybe there is a web site that details this setup process that I haven't  
> seen. If so, I'd love the link, or just a brief rundown on the whole  
> process, and where this APRSD can be located.  
>  
> In advance, for your help, thanks much!  
>  
> Travis  
> N4TJM  
>  
> ---  
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#### 485. [aprssig] Re: AFilter 2.02.14 released

From: "Dick Stanich" <dstanic@c2i2.com>  
Date: Sun, 17 Dec 2000 20:10:58  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125124-2000.12.17-20.29.09--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Sorry, after a few e-mails, I realized how difficult it can be to navigate through my site. <g>

This is the MOST direct url:

<http://www.c2i2.com/~yumaprs/index-1.html>

In fact, if you click on it right now it will amazingly pop up without leaving the TAPR SIG. At least, I think so, I didn't beta-test it. <g>

Dick, KB7ZVA  
Southwest Arizona APRS Group

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#### 486. [aprssig] lucky shoppers at Office depot

From: Kd4emi@aol.com  
Date: Sun, 17 Dec 2000 21:50:29 EST  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-125125-2000.12.17-21.02.35--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I picked up a GPS3+. The first stop, someone just bought the last one a moment before me and they looked it up on the computer and directed me to a store with one in stock.

As it turned out, the model was a demo, and they sold it to me for 50 bucks ! I also bought the EMAP too, although I have no idea which one I will keep. The EMAP was \$99. There were 2 more left there. If anyone HAS TO HAVE ONE, I can get it. (that is the EMAP not the 3+)  
I may be willing to make a deal with someone that has the GARMIN CD.  
If you have one, please email me.  
The ROM version on the GPS3 is 2.03. I have to figure out what to do for upgrades and if the latest upgrade is worth figuring out.  
Mike

---

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#### 487. [aprssig] D7 question

From: Earl Needham <[KD5XB@AMSAT.ORG](mailto:KD5XB@AMSAT.ORG)>  
Date: Sun, 17 Dec 2000 20:26:35 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-125129-2000.12.17-21.39.09--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

An acquaintance of mine just asked me this, and I don't have the answer.

He says a tracker using a D7 early this morning was "jumping" position over a span of about 11 degrees, from around 34N to perhaps 45N.

Is this a common problem, or is there something that can be easily done to eliminate this problem?

Thanks,  
Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

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#### 488. [aprssig] APRS Digi and KPC-2

From: Zachary Michael <[kb9uqq\\_2000@yahoo.com](mailto:kb9uqq_2000@yahoo.com)>  
Date: Sun, 17 Dec 2000 22:31:00 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-125130-2000.12.17-21.43.11--lyris.aprssig#tapr.org@lists.tapr.org>



Rendered body type: text/plain

Hi Gang,  
Can somebody give me some instructions on how to setup APRS Digi and a KPC-2 TNC? I have played with it before, but it never seems to work. If anybody could give me some setup instructions, it would be appreciated!

--  
HAVE A VERY MERRY CHRISTMAS AND A HAPPY NEW YEAR!!!!

=====

Thanks and 73's,  
Zachary Grant Michael, KB9UQQ,  
KB9UQQ-1, KB9UQQ-6, KB9UQQ-7, KB9UQQ-9, KB9UQQ-10,  
Hartford City, Blackford County, Indiana, EN70  
4025.51 N --- 08515.29W  
E-Mail: kb9uqq@tawg.org  
TAWG Coordinator  
<http://www.tawg.org/>  
Zach's Homepage  
<http://www.kb9uqq.net/>  
Zach's APRS Webpages  
<http://www.aprsinindiana.cjb.net/>  
Zach's APRS Software for Windows 3.1  
<http://www.qsl.net/kb9uqq/APRS.html>  
Zach's Car  
<http://www.findu.com/find.cgi/kb9uqq-9>  
Zach's Laptop  
<http://www.findu.com/find.cgi/kb9uqq-6>  
Zach's HT  
<http://www.findu.com/find.cgi/kb9uqq-7>  
Zach's Digi  
<http://www.findu.com/find.cgi/kb9uqq-10>  
Zach's House  
<http://www.findu.com/find.cgi/kb9uqq>  
APRS Frequency: 144.390 MHz Simplex  
SSTV Frequency: 146.460 MHz Simplex

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---

#### 489. [aprssid] Re: lucky shoppers at Office depot

From: WB8STO (RICH) <wilbur@one.net>  
Date: Sun, 17 Dec 2000 22:41:07 -0500  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-125131-2000.12.17-21.53.48--lyris.aprssid@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>I picked up a GPS3+. The first stop, someone just bought the last one a  
>moment before me and they looked it up on the computer and directed me to a  
>store with one in stock.  
>  
>The ROM version on the GPS3 is 2.03. I have to figure out what to do for  
>upgrades and if the latest upgrade is worth figuring out.  
>Mike

Here is the upgrade link <http://www.garmin.com/support/download.html>

The current version is 2.05  
Rich

---  
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#### 490. [aprssid] RE: D7 question

From: Bill Diaz <billdiaz@megsinet.net>  
Date: Sun, 17 Dec 2000 22:06:14 -0600  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-125132-2000.12.17-22.18.51--lyris.aprssid@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Earl,

Some IGATE and APRS applications improperly convert raw Mic-E packets. It is likely there was nothing wrong with the D7. The same problem can be observed with the D700 and other products transmitting Mic-E data.

These improper conversions and the timestamps supplied by the IGATE can defeat APRServe dupe checking, and result in as many as 5 different packet conversions appearing on the Internet feed for 1 raw Mic-E transmission. Very often a Mic-E track will appear to stagger or staircase due to this.

Bill KC9XG

On Sunday, December 17, 2000 9:27 PM, Earl Needham [SMTP:KD5XB@AMSAT.ORG] wrote:

```
>
> An acquaintance of mine just asked me this, and I don't have the
> answer.
>
> He says a tracker using a D7 early this morning was "jumping"
> position over a span of about 11 degrees, from around 34N to perhaps 45N.
>
> Is this a common problem, or is there something that can be easily
> done to eliminate this problem?
>
> Thanks,
> Earl
>
>
> Earl Needham, KD5XB      mailto:KD5XB@AMSAT.ORG
> Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)
>
> Pet peeve: breath is a noun, breathe is a verb (When you take a breath,
> you breathe...)
>
>
> ---
> You are currently subscribed to aprssig as: BILLDIAZ@MEGSINET.NET
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org
```

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Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

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## 491. [aprssig] Phoenix SX question

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Sun, 17 Dec 2000 21:12:00 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125137-2000.12.17-22.27.08--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At one point, some months ago, someone offered to reprogram my Phoenix SX for me, as a favor. Unfortunately, I have lost that email, and I don't remember who it was.

Is there someone on here that might consider programming my Phoenix SX as a favor? This one is a 16-channel rig, but I think I could actually get along with only TWO frequencies in it (144.39 as #1). I use it as a tracker for APRS, BTW.

Thanks,  
Earl

Earl Needham, KD5XB mailto:KD5XB@AMSAT.ORG  
Clovis, New Mexico DM84jk N34d 25.446m W103d 12.700m (or so)

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

---

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#### 492. [aprssig] Fwd: D7 question

From: K5QQ@aol.com  
Date: Sun, 17 Dec 2000 23:24:18 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125139-2000.12.17-22.37.12--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In a message dated 12/17/2000 8:51:07 PM Mountain Standard Time,  
KD5XB@AMSAT.ORG writes:

>  
> An acquaintance of mine just asked me this, and I don't have the  
> answer.  
>  
> He says a tracker using a D7 early this morning was "jumping"  
> position over a span of about 11 degrees, from around 34N to perhaps 45N.  
>  
> Is this a common problem, or is there something that can be easily  
> done to eliminate this problem?  
>  
> Thanks,  
> Earl  
>  
>  
Hi Earl

Was he watching N5YXC as it flew from Albuquerque to around Lubbock?

If so and if you looked very close at the data reports it showed the D7 was producing correct reports on both RF and internet connection. However every other report indicated it was a mic-e encoder and each of those reports were 10 degrees north of where the balloon actually was.

I noted that each report that was wrong came thru the Amarillo I gate, KB5WI0. That Igate indicates it is running WinAPRS but I am not sure what version they run over there but that seems to be the problem.

I also noted that reports that came via RF came thru KB5WI0-7 and made it over to Albuquerque and they were OK. On almost all of the reports there was one that made the RF link and those were reported OK. The same report at the same time also then showed up via the server and it was consistently 10 degrees north, changing a 3X to a 4X N latitude.

It was also interesting that the Igate reports were somehow decoded to indicate the D7 was a mic-e and I think this is where the problem is. (I seem to be repeating myself but it's late and I've been watching too many balloon reports!!)

Jim Baremore K5QQ

---

#### 493. [aprssig] Aprs Serve

From: "Robert Baldwin" <RMBALDWIN@HOME.COM>  
Date: Sun, 17 Dec 2000 22:49:26  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125142-2000.12.17-23.01.36--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

APRS Server Atlanta now informs me that I need to upgrade my software, so I now only get Read Access via TCP/IP. I am running WINAPRS 2.47. Do I understand that you can not run an igate with WINAPRS now?

What software needs an upgrade?

Bob  
KE4KUR

---

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#### 494. [aprssig] Re: 9600 Baud Cxxx

From: Jeff King <jeff@aerodata.net>  
Date: Mon, 18 Dec 2000 00:00:58 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125143-2000.12.17-23.10.11--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

A temporal correction needs to be applied here..

Bob Bruninga wrote:

>

> On Sat, 16 Dec 2000, Steven J Adams wrote:

>

> > Nothing personal Bob B., I understand why we did 1200 AFSK, but when

> > Kenwood entered the equation, you had a chance to change to it to the best.

...[on 9600bps TNC's/Radios]

> Something that USA Amateurs had refused to use (in general) even 18 years

> after 9600 baud TNC's were available.

2000-18 years = 1982....

Lets look at U.S. packet history, in 1982 we had the first U.S. packet QSO with a homemade 1200 baud TNC. No store-bought or kit TNC's were available in the U.S. AX.25 didn't exist. No packet in Europe (to speak of). The only real activity was in Canada, from which these first U.S. amateurs took their technology.

<http://www.tapr.org/tapr/html/Fhistory.tapr82.html>

It wasn't until 1983 that a widely available kit came about (the TAPR page incorrectly lists this as a 1982 TNC1, which in fact was the Beta kit).

Still, 1200 baud.

In 1985 (check your CNC, now DCC notes) we had our first 9600bps modem design, from K9NG. TAPR shortly picked this up as a kit later in 1985/86.

To my knowledge, the first "plug and play" 9600bps TNC/Radio was done in the late 80's or early 90's, very likely by PacComm using the G3RUH modem.

I'd VERY MUCH like to see your data for that 9600bps TNC that was available in 1982. Perhaps this e-mail is crossing into a alternate timeline.

> So Kenwood DID provide us the

> springboard to move to 9600, and finally bring the USA packet community

> out of the dark ages.

Yes, they are our saviors. Its easy to forget (for you at least), that many came before them. Paccomm offered a integrated 9600bps ham package in the late 80's until recently.... Kantronics had a plug and play 9600/19200 solution in the early 1990's.... In each of these solutions they could send full 256 byte frames, with maxf's at 7, abaud rates of 38,400+ and with turnaround times of less then 10ms. And this was 10+ year old Z-80 technology developed by little under budgeted American companies.

> No, it is not perfect, but for the first time,

> anyone can have a 9600 baud packet system without doing major surgery on

> their radios.

Yes, if you erase the time period from ~1987 to ~1998, that is a true statement. Paccomm still sells a integrated 9600bps radio/tnc, but it is more orientated towards the commercial market:

<http://www.paccomm.com/avlm.html>

> AND with the five 9600 baud packet satellites flying overhead gave

> everyone on the planet 25 times a day, a 9600 baud test source no matter

> where they lived. Since 1998 I have been using the THD7 to demonstrate

> 9600 baud packet reception at Hamfests, DCC, and AMSAT meetings... So I

> do not understand your above comment about what they could have done

> "right"?

I'd guess what Steven meant was performance approaching those antique American companies such as Paccomm and Kantronics among others, that is for a true data type application. Recall this was 10+ years ago and the companies that developed it where relatively small companies, at least compared to Kenwood. I guess his thought was they could do it a little better then those before them, in particular when you realize what resources they have available to them as well as the fact that technology has progressed in the 10 years since these guys came out with there product.

I don't want to speak for him, but that's how I interrupted it.

> But now we have a Kenwood with built-in 9600 baud and now we can do what  
> APRS wanted all along... Send out a tiny noise burst at the end  
> of a voice transmission.

OK, now this makes sense. Changeover times don't matter since the radio is already keyed up. Yet it is not a simplex packet radio data application in the framework of what you were talking about earlier. It's one application where the poor performance doesn't matter, or at least has minimal affect.

> Yet still NO ONE does this... because it  
> requires someone to modify a radio from 9600 baud to put at the repeater  
> site to pull this noise burst off the repeater input and send it over to  
> the APRS frequency..

Bob Bob Bob.... always the one to complain and not look around for a solution.  
Here is a quick and easy one for you.

<http://www.symek.com/g/zfd.html>

This board takes your IF frequency, and demodulates it through a filter that takes group delay issues into account. Should be a quick and easy addition to any repeater. Then, you just feed the output to your TNC's 9600bps input, and cross it over to the APRS frequency. Two KISS TNC's back to back (one 9.6k the other 1.2K) should do it transparently. Bada bing, bada boom, problem solved.

-Jeff

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## 495. [aprssig] Re: 9600bps radios

From: Jeff King <[jeff@aerodata.net](mailto:jeff@aerodata.net)>  
Date: Mon, 18 Dec 2000 00:01:06 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-125144-2000.12.17-23.14.19--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-125144-2000.12.17-23.14.19--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Bob Bruninga wrote:

>

> Sorry, jeff, but you need to do some simple reality checks on such claims.  
> Now you claim that 9600 should not just be equal, but outperform 1200 by a  
> big margin (15 dB). This is impossible.

The reality check that needs to be done is for you to actually READ what I posted earlier and look at the references.

I DIDN'T say that 9600 GMSK("fsk") should outperform 1200 AFSK by 15 dB, I said with the radio in question there was a 15 db DISADVANTAGE (or difference) from what things ideally should be. The difference should be close to 0 with a slight advantage for the 9600bps GMSK signal.

> As you know, the thermal noise floor (noise of atoms) is -132 dBm. (and no  
> receiver on earth can do better), yet you are claiming reliable  
> non-coherent FSK detection is possible with only 4 dB Eb/N0 which is just  
> not possible.

I never said non-coherent FSK, this is a new factor you added today... I listed the demodulator in question, which is a GMSK demodulator, used in amateur TNC's, and is standard practice, Again see:

[http://www.mxcom.com/data\\_bulletins/db589a-2.pdf](http://www.mxcom.com/data_bulletins/db589a-2.pdf) page 10

The issue here seems to be a simple one, RTFM. I said "state of the art" and I didn't say non coherent FSK (and does anyone even use this on 9.6kbaud?), this is something you know and your just trying to distort things in your proof. State of the art is GMSK, although many referring to it generically as FSK...(but this is a part that is in the Kantronics TNC's.....not theory but real world examples).

Hey, maybe the problem is the Kenwood is in fact using old style "RTTY" non coherent FSK? Can you look at the schematic and let me know what de/modulator chip they are using? As I said repeatedly before, lets fix the problem instead of trying to explain it away. IMHO, it seems to me this would better serve the amateur community to try and come up with a mod fix for the D7 then to try and explain it

away. No matter how many times you say its not, it in fact can be better.

Who knows, maybe Kenwood did things differently... do you have a theory of operation description on the radio? The operators manual I saw on the Web looked like it was written for a consumer product, and not a piece of technical equipment.

> I'm sorry you are still throwing digs into your claims, but this is not  
> rocket science nor "pseudo science".

I don't see any digs this time, just careful manipulation of the facts and subtle technical changes to support your conclusions. I.E. fitting your proof to the conclusions.

> I did go back in my log and found where I measured -117 dBm for a KPC-3  
> with a commercial radio, about 0.3 uv at 1200 baud. So now we have 3 data  
> points. It would be nice if you had the time to measure your TEKK/TNC and  
> give us another data point.

This never had anything to do with radio reviews, just your statement that 1200 baud AFSK is 9dB better then direct 9600bps modulation.... a true statement if both were non coherent FSK. But both are not. One is non coherent AFSK which is double demodulated (once to baseband, once by the modem chip), the other is GMSK modulation which is directly demodulated. Looking at data from MXCOM as practical affordable real world standard, and assuming similar noise bandwidths (since its the same radio), we are looking at a >3db advantage at 10-5 BER for 9600bps on the MX589 (9600bps GMSK) as compared to the MX614 (1200baud bell 202 AFSK). This is also factoring in the FM processing gain to the 1200 baud modems advantage.

It's all in the books and papers I have already cited to you. There simply shouldn't be that much difference in the numbers you are getting, assuming the Kenwood is a state of the art design.

This supports the statements that have already been made on here by numerous people, I count at least 3 besides myself. That is, that state of the art amateur 9600bps performance should be similar to 1200baud AFSK, and in some cases, slightly better. Note the words "state of the art". This implies a well designed radio, which takes into account factors such as group delay, DC coupling on both the RX and TX paths, and other factors such as turnaround time and were the modulation is coupled into the transmitter. You just can't take any old off the shelf HT and expect it to perform well on 9600bps. Things that are completely unimportant for voice operation make a big difference in a true data radio. The fact that Kenwood got so close (at least on the RF side), is quite commendable for a "jack of all trades" cadillac type radio. But it is not reflective of a state of the art dedicated 9600bps data radio. This is no dig on you or your client Kenwood. They did a good job. But anyone that wants to do medium (9.6k) speed packet, is better served by buying a radio designed from the ground up for that purpose. The Kenwood wasn't designed for that purpose, which you freely admit. This doesn't mean its a bad 1200 baud APRS radio. Why are we have this debate then?

-Jeff

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## 496. [aprssig] APRS demo for Sheriff's department

From: "Ron Reeves" <aprssigs@home.com>  
Date: Sun, 17 Dec 2000 21:49:03 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125146-2000.12.17-23.57.32--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I realized that I posted this question to the news group by mistake. Even though I have received a few great responses, I thought I would post it where I meant to.  
Ron

I have been asked to put on a APRS demo for 3 local Sheriff's departments (how did they get my name?) They seem to have some of the same interests that the Search and Rescue groups have. Does anyone have any suggestions or tips for giving a presentation to such a group? Does anyone have a website covering this topic?

Also, I know that they will likely ask me questions such as:

- 1) Can we use this with the Sheriff's Radio System?
- 2) Will it work with FRS?
- 3) How can this really help us?

4) Can we use topographical maps with this software?

I know that technically it would work with their system or FRS, but is it legal? Do the authors consider such usage as commercial and wish to sell them software through a separate channel? Any thoughts? Any other questions that they will ask?

Ron Reeves  
N7QX0  
aprssigs@home.com

---

#### 497. [aprssig] Re: Fwd: D7 question

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Sun, 17 Dec 2000 22:35:03 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125147-2000.12.18-00.01.39--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 11:24 PM 12/17/00 -0500, K5QQ@aol.com blasted the following out into the ether:

>>snip>

> Was he watching N5YXC as it flew from Albuquerque to around Lubbock?

Yep, sure was. (It was Tim Baggett, BTW.)

> If so and if you looked very close at the data reports it showed the D7  
> was  
> producing correct reports on both RF and internet connection. However  
> every  
> other report indicated it was a mic-e encoder and each of those reports  
> were  
> 10 degrees north of where the balloon actually was.

OK, I was just wondering. Perhaps it's the IGATE or else the D7 itself that was at fault...

7 3  
Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

---

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#### 498. [aprssig] HD-4040 problem

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Sun, 17 Dec 2000 22:49:28 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125150-2000.12.18-00.02.21--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I use an old Heathkit HD-4040 here on 2 meters, with a KISS-only chip in it. works good. At least, it DID. Suddenly, it won't transmit, although I can still receive just fine.

All the LEDs seem to be working as they always have, and I suspect the data isn't getting inside the TNC.

This computer works just fine with a different TNC on the same port.

Anybody have any ideas where I should start looking to fix this old beast? Unfortunately, I don't have the books for it...

Thanks,  
Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

---

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---

#### 499. [aprssig] Changeing callsign in APRSdos

From: "Stephen M. King" <frastephen@home.com>  
Date: Mon, 18 Dec 2000 01:10:30 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125166-2000.12.18-00.23.49--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I have APRSdos on my main computer and I would like to add a ssid to my call. How do I change the callsign? I guess (because of validation) I would need to re-enter all the initial settings (which is fine), but how do I force it to allow me to do that???

Thanks in advance for the help!

73,  
Stephen  
KD3OG

---

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---

#### 500. [aprssig] Re: HD-4040 problem

From: Jeff King <jeff@aerodata.net>  
Date: Mon, 18 Dec 2000 02:12:30 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125173-2000.12.18-01.24.09--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi Earl:

That was my first TNC. It is actually a TAPR TNC1 repackaged by HeathKit.

If I recall, it has tin sockets, your first thing is going to be to reseat every chip in the device. I remember having to do this a number of times when it was fairly new. Somewhere around here I still have the thing!

When it is trying to transmit (or you think it should), does the PTT light come on? If it does, take a look at the VN10KM transistor in the TNC or possibly your cables PTT line is broken.

Getting ahead of ourselves (get it working first) but here is some newer software for the TNC1:

<http://www.simtel.net/simtel.net/msdos/packet.html>

You want TF21c.ZIP, which is TNC1 command mode software that supports both AX.25 version 2 and can go into KISS mode. This is a updated version of the WA8DED software by NordLink. Some of Henk's software will also work with this (DED hostmode) besides the KISS software.

I have a manual if you really run into some problems, but I guess something is just loose.

Good luck

Jeff

Earl Needham wrote:

>

> I use an old Heathkit HD-4040 here on 2 meters, with a KISS-only chip  
> in it. works good. At least, it DID. Suddenly, it won't transmit,  
> although I can still receive just fine.

>

> All the LEDs seem to be working as they always have, and I suspect  
> the data isn't getting inside the TNC.



```

>
> This computer works just fine with a different TNC on the same port.
>
> Anybody have any ideas where I should start looking to fix this old
> beast? Unfortunately, I don't have the books for it...
>
> Thanks,
> Earl
>
> Earl Needham, KD5XB      mailto:KD5XB@AMSAT.ORG
> Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)
>
> Pet peeve: breath is a noun, breathe is a verb (When you take a breath,
> you breathe...)
>
> ---
> You are currently subscribed to aprssig as: jeff@aerodata.net
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>
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```

---

## 501. [aprssig] Re: HD-4040 problem

```

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Mon, 18 Dec 2000 01:28:30 -0600
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-125174-2000.12.18-01.42.55--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

At 11:49 PM 12/17/00, Earl Needham wrote:

> I use an old Heathkit HD-4040 here on 2 meters, with a KISS-only
> chip in it...
>
> Anybody have any ideas where I should start looking to fix this old
> beast? Unfortunately, I don't have the books for it...

Earl, give the 4040 a proper burial or put it in the attic with the Vic
20. ;-)

A recent issue of QST had a low cost PIC based Kiss TNC featured in it. It
might be easier to build something new. Plus the new unit is much much
smaller and can be powered by a 9 volt battery (if I remember correctly).

73,

Mark
KC7BXS

```

```

---
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```

---

## 502. [aprssig] Re: HD-4040 problem

```

From: Jeff King <jeff@aerodata.net>
Date: Mon, 18 Dec 2000 02:32:46 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-125175-2000.12.18-01.43.45--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Jeff King wrote:
>
> Getting ahead of ourselves (get it working first) but here is some newer
> software for the TNC1:
>
> http://www.simtel.net/simtel.net/msdos/packet.html
>
> You want TF21c.ZIP, which is TNC1 command mode software that supports both
> AX.25 version 2 and can go into KISS mode.

```

Even though Simtel says this is for the TNC1, it appears to be for the TNC2.

This one is for the TNC1 (But doesn't have kiss)

ftp://ftp.ucsd.edu/hamradio/packet/wa8ded/

Sorry

Jeff

---

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---

### 503. [aprssig] Re: 9600 Baud Cxxx

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Mon, 18 Dec 2000 01:57:10 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125176-2000.12.18-02.13.18--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 11:00 PM 12/17/00, Jeff King wrote:

> Paccomm offered a integrated 9600bps ham package in the late  
>80's until recently.... Kantronics had a plug and play 9600/19200 solution in  
>the early 1990's....

Let us not forget the ill-fated Drake TR-270. Did anyone ever buy one?

73,

Mark  
KC7BXS

---

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---

### 504. [aprssig] 9600 BPS? We don't need no steenkin' 9600 BPS

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Mon, 18 Dec 2000 02:49:35 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125180-2000.12.18-03.05.26--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain  
<http://www.wa4dsy.net/>

Of course, it looks like the PI2 interface card is out of production.

---

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---

### 505. [aprssig] Re: Changeing callsign in APRSdos

From: "lloyd mitchell" <lloyd75@hotmail.com>  
Date: Mon, 18 Dec 2000 05:46:29 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125188-2000.12.18-04.58.37--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

aprssxx /new

xxx = version #

Lloyd KD4HTW

-----Original Message Follows-----

From: "Stephen M. King" <frastephen@home.com>  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Subject: [aprssig] Changeing callsign in APRSdos  
Date: Mon, 18 Dec 2000 01:10:30 -0500

I have APRSdos on my main computer and I would like to add a ssid to my

call. How do I change the callsign? I guess (because of validation) I would need to re-enter all the initial settings (which is fine), but how do I force it to allow me to do that???

Thanks in advance for the help!

73,  
Stephen  
KD3OG

---

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---

## 506. [aprssig] Re: 9600bps radios, was Re: APRS Satellite Details

From: <henk.de.groot@hetnet.nl>  
Date: Mon, 18 Dec 2000 12:52:20 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapir.org>  
Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapir.org>  
Message-ID: <LYR842-125199-2000.12.18-06.04.38--lyris.aprssig#tapir.org@lists.tapir.org>  
Rendered body type: text/plain

> Maybe the Europeans who have a lot more practical experience with  
> 600 baud would care to comment on the sensitivity of typical "good  
> quality" 9600 baud implementations... Even the USA packet folks I  
> have spoken with have said that their experience with 9600 baud is  
> worse than 1200 over the same path, power, and antennas.

I don't have measurement data but I can give some experience data.

On the HAM network 9600 baud is generally much worse than 1200 baud. You need in general very strong signals. This is not due to the mode itself but due to the very simplified equipment used by HAM operators.

Contributors are:

- Transmitted wave-forms are often already distorted before coming on air due to non linearities in the modulator. On Japanese equipment an additional problem is that the PLL tries to correct the low frequency components - it thinks that the VCO is wandering off-frequency when in fact a 10 Hz component in the signal.
- Filters characteristics used in HAM equipment are not optimized for DATA, they are not flat enough or have group-delay problems that distort the signal.
- Receivers are often modified to take the received signal directly from the modulator. Especially at that start of the reception there is a DC-jump on the output if the receiver is not exactly in the frequency of the transmitter. Proper adjustment of the receiver to the transmitters frequency is vital.

These 3 points can be fixed by using a transceiver designed for DATA (like the TEKK or Eisches LinkTRX III used for 23cm 19200 baud interlinks). But that is not the end of the story and the problems with HAM equipment.

Most decoders used by HAMS for FSK to digital decoding are very basic and simple slicers, this includes the original G3RUH modem. If the signal is above the frequency its a '1', if it is below its a '0'. The slicers are only kept in the middle of the signal by averaging the signal (just a simple capacitor coupling). The only a little bit more advanced hardware solution I've seen is in the OE5DXL modem, which uses a trick with 2 diodes and 2 capacitors to home-in on the signal quickly (but is more sensitive to signal noise as a drawback).

For these simple decoders it means that inter-symbol interference, group delay and multipath signals have a devastating effect on the ability to decode signal. A lot could be saved by using a coherent or semi-coherent decoder. Commercial systems like GSM, D-AMPS and PCS don't use anything else than that. Adjusting the HAM equipment is often done using the "eye pattern" for maximum "eye opening", that's the only means there is.

The only improvement I've seen so far in decoding technique is the effort by Tomas Sailer, HB9JNX, to use the sound-card. He attempts to build a decoder that predicts some of the low-order distortion and compensate before a decoding attempt is made. I expect this decoder will decode signals long after all

other modems already gave up. Of course the penalty is the need for some heavy signal processing which you don't have available in a TNC of Handheld device. There is an interesting article about it in this years DCC proceedings.

I don't know what the TH-D7 uses, but I expect it is a slicer too. I don't know if there are any specific measures to take care of the voltage jump out of the decoder when the receiver is not exactly on the same frequency as the sender. For satellite one would expect this since the frequency of the satellite constantly changes due to doppler shift. A huge advantage is that the satellite signal is most likely a very clean, well modulated signal, unlike the terrestrial HAM 9k6 stations.

Anyway, I think due to the equipment we use as HAMS (and not because of the theoretically achievable performance) the 9600 signal needs to be a lot stronger than a comparable 1200 baud signal needs to be. It could be a lot better, but HAMS just cannot afford it.

By the way, I'm using a modified car-phone for my 9k6 needs (picture <http://home.iae.nl/users/vhaaften/nokia/>) and a YAM modem (<http://www.microlet.com>) which I modified with the detection method "stolen" from the OE5DXL modem (<http://www.raag.org/sv2agw/oe5dxl.zip>).

Kind regards,

Henk.

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---

## 507. [aprssig] Re: APRS demo for Sheriff's department

From: [Kd4emi@aol.com](mailto:Kd4emi@aol.com)  
Date: Mon, 18 Dec 2000 10:01:34 EST  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-125212-2000.12.18-09.13.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Give me a private email today and I'll get with you.  
I can describe my experience with our Sheriff's Dept.  
Mike Kantor  
KD4EMI@AOL.COM

---

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## 508. [aprssig] Re: Aprs Serve

From: Guy Story <[kc5goi@tapr.org](mailto:kc5goi@tapr.org)>  
Date: Mon, 18 Dec 2000 10:22:00 -0600 (CST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-125247-2000.12.18-10.34.12--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bob, try backing up to 2.4.6 if you can. I connected to second.aprs.net and did not receive the message. Only not having registered software should keep you from igating, not software being out of date. 2.4.7 is the most current version of WinAPRS. There is no reason for it to show being out of date.

73,

Guy Story  
KC5G0I  
[kc5goi@tapr.org](mailto:kc5goi@tapr.org)  
<http://www.kc5goi.net>

---

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---

## 509. [aprssig] RE: X/Y coordinates on a graphic file (was: continuous bickering)

From: David Locke <[locked@intplsrv.net](mailto:locked@intplsrv.net)>  
Date: Mon, 18 Dec 2000 10:29:29 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-125248-2000.12.18-10.45.28--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Okay, Great, Now I have it! It WAS simple.

Now can I get some Hints on Getting an I-gate to work?

---

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---

## 510. [aprssid] Re: 9600 Baud Cxxx

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Mon, 18 Dec 2000 12:25:58 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-125253-2000.12.18-11.40.18--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-125253-2000.12.18-11.40.18--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

On Mon, 18 Dec 2000, Jeff King corrected me...(but alas incorrectly)

> > Something that USA Amateurs had refused to use (in general) even 18 years  
> > after 9600 baud TNC's were available.  
>  
> Lets look at U.S. packet history... (1200 bd) No store-bought or kit  
> TNC's were available in the U.S. AX.25 didn't exist.... The only real  
> activity was in Canada, from which these first U.S. amateurs took their  
> technology.

Wrong, we in AMRAD in Washington DC had the Vancouver boards on the air long before 1982. It was at the SAME time that we in AMRAD were writing the AX.25 SPEC! I was there and was a member of the Board. My AMRAD BBS in Vienna VA, using a Vancouver board was one of the first in the country, I think it was 1979 but don't have time to go dig it all up.

> In 1985 ... we had our first 9600bps modem design,  
> from K9NG. TAPR shortly picked this up as a kit later in 1985/86.

OK, I was wrong. 9600bd was 15 instead of 18 years ago.. Still today, in 2000, I do not see 9600 baud in general use in the USA. I think anyone should be able to see that point.

de WB4APR, Bob

---

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---

## 511. [aprssid] Re: Changeing callsign in APRSdos

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Mon, 18 Dec 2000 12:29:45 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-125254-2000.12.18-11.42.41--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-125254-2000.12.18-11.42.41--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

On Mon, 18 Dec 2000, Stephen M. King wrote:

> I have APRSdos on my main computer and I would like to add a ssid to my  
> call. How do I change the callsign?

Two ways.

- 1) Restart the program at the dos prompt with the "/new" on the end
- 2) edit the first two lines in the C:\CONFIG8?.APR file

de WB4APR, Bob

---

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## 512. [aprssid] Re: Aprs Serve

From: Bill Diaz <billdiaz@megsinet.net>  
Date: Mon, 18 Dec 2000 12:15:43 -0600  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-125259-2000.12.18-12.28.42--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bob,

Be advised that many position packets output by ver 2.4.6 contain garbage control characters in the payload.  
I am using a registered version of 2.4.7 with APRServe.

Bill KC9XG

On Monday, December 18, 2000 10:22 AM, Guy Story [SMTP:kc5goi@tapr.org] wrote:  
> Bob, try backing up to 2.4.6 if you can. I connected to second.aprs.net  
> and did not receive the message. Only not having registered software  
> should keep you from igating, not software being out of date. 2.4.7 is  
> the most current version of WinAPRS. There is no reason for it to show  
> being out of date.

> 73,  
>  
> Guy Story  
> KC5GOI  
> kc5goi@tapr.org  
> http://www.kc5goi.net  
>

---

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---

## 513. [aprssid] Re: 9600bps radios

From: Bob Bruninga <bruninga@usna.edu>  
Date: Mon, 18 Dec 2000 13:53:04 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssid@lists.tapr.org>  
Message-ID: <LYR842-125261-2000.12.18-13.05.47--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Could this possibly end the Great 9600 baud Debate?

> Jeff now says: ... The fact that Kenwood got so close ... is quite  
> commendable for a "jack of all trades" cadillac type radio. But it is  
> not reflective of a state of the art dedicated 9600bps data radio. This  
> is no dig on you or ... Kenwood. They did a good job....

> But anyone that wants to do medium (9.6k) speed packet, is better served  
> by buying a radio designed from the ground up for that purpose...  
> Why are we having this debate then?  
> -Jeff

Bingo. We have been debating your earlier repetative Public claims of  
"shoddy engineering" and "Kenwood is showing DISRESPECT to the the  
worldwide ham market by selling a flawed product".. \*were unfair\*.

Now that you have \*softened your rhetoric\* I think we both look forward to  
some good measurements on some of the "other" radios to help guide us to  
what is practical in amateur practice..

What I have objected to is your biased and repeated negativism toward  
a pretty darn good radio for what it was designed to do.

Why dont we stop here.  
de WB4APR, Bob

But there were other misrepresentations and corrections for those  
following this junk:

Jeff said:  
> I DIDN'T say that 9600 GMSK("fsk") should outperform 1200 AFSK by 15 dB,  
> I said with the radio in question there was a 15 db DISADVANTAGE (or  
> difference) from what things ideally should be.

Maybe what you MEANT to say, but Here is exactly what you said:

QUOTE

There may be a 7db difference, but in reality we are looking at the Kenwood being at a 15db DISADVANTAGE of where it really should be at.

UNQUOTE

Such biased statements discredit your arguments and is what compels me to respond.. There is no radio on earth that can do 15 dB better than 0.5 uv at 9600 baud. I am only taking to task your continuing obfuscation of facts and references to cover your biased opinion.

> This never had anything to do with radio reviews, just your statement that  
> 1200 baud AFSK is 9dB better then direct 9600bps modulation....

Again, I \*\*\*\* never said that \*\*\*\*. Everyone knows that is not true at all.. I said 1200 baud is 9dB better than 9600 baud when \*\*\*\*both are using appropriately matched FSK bandwidths/modulation\*\*\*. Which we are not...

> This supports the statements... That is, that state of the art  
> amateur 9600bps performance should be similar to 1200baud AFSK, and in some  
> cases, slightly better.

"Should be" is the key word. You keep slam dunking the Kenwood where I made some measurements. I simply want to see some measurements from the other "amateur 9600 bps performance" to which you refer. We would all like to see how much better they can be or how dis-serving your claims are of "shoddy engineering" and "Kenwood is showing DISRESPECT to the the worldwide ham market by selling a flawed product"..

de WB4APR, Bob

---

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---

## 514. [aprssig] Re: Aprs Serve

From: Bill Vodall <wa7nwp@yahoo.com>  
Date: Mon, 18 Dec 2000 11:19:49 -0800 (PST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125262-2000.12.18-13.32.26--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

--- Guy Story <kc5goi@tapr.org> wrote:  
> Bob, try backing up to 2.4.6 if you can>

But don't use 2.4.6 for an Igate... It drops bits on  
Mic-E packets... 122 degrees Longitude becomes 22 degrees.

Bill

---

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---

## 515. [aprssig] Re: 9600bps radios

From: Timothy J Salo <tjs@tc.umn.edu>  
Date: Mon, 18 Dec 2000 13:21:54 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125263-2000.12.18-13.36.24--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> Date: Mon, 18 Dec 2000 13:53:04 -0500 (EST)  
> From: Bob Bruninga <bruninga@usna.edu>  
> Subject: [aprssig] Re: 9600bps radios  
> [...]  
> Could this possibly end the Great 9600 baud Debate?

Well, it may be unlikely, given that we appear to two guys who are neither able to let the other have the last word nor able to definitely provide the

last word themselves.

> Why dont we stop here.  
> [...]

Hmmm... You didn't (or couldn't).

-tjs

---

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## 516. [aprssig] Re: 9600 Baud Cxxx

From: Bill Vodall <wa7nwp@yahoo.com>  
Date: Mon, 18 Dec 2000 11:40:52 -0800 (PST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: seatcp@wetnet.wa.com  
Message-ID: <LYR842-125266-2000.12.18-13.55.57--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> Still  
> today, in  
> 2000, I do not see 9600 baud in general use in the USA. I think  
> anyone  
> should be able to see that point.  
>  
> de WB4APR, Bob

WETNET in the Puget Sound area has FOUR 9600 baud repeaters and  
a fifth one on the way. I'd call that general use.

Considering that a repeater gives about 38% of the available bandwidth  
compared to 18% for Aloha (no carrier sense) or 10% (or less) for a  
digipeater hindered channel like 144.39, we will be able to "share"  
all of the NWAPRS traffic and a good portion of the world wide  
traffic with little noticeable affect on the existing network.

Net affect will be even more APRS stations and less traffic on 144.39.  
A good thing!

This is where I'm "hoping" the Kenwood rigs work. It will be great  
if they do! I'm a bit skeptical as general use here has  
1500 bytes in a single packet...

Bill, WA7NWP

---

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---

## 517. [aprssig] Re: 9600 Baud Cxxx

From: Jeff King <jeff@aerodata.net>  
Date: Mon, 18 Dec 2000 15:52:12 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125272-2000.12.18-15.02.31--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bob Bruninga wrote:

>  
> On Mon, 18 Dec 2000, Jeff King corrected me...(but alas incorrectly)  
>  
> > Something that USA Amateurs had refused to use (in general) even 18 years  
> > after 9600 baud TNC's were available.  
> >  
> > Lets look at U.S. packet history... (1200 bd) No store-bought or kit  
> > TNC's were available in the U.S. AX.25 didn't exist.... The only real  
> > activity was in Canada, from which these first U.S. amateurs took their  
> > technology.  
>



> Wrong, we in AMRAD in Washington DC had the Vancouver boards on the  
> air long before 1982.

Since when is Vancouver in the United States? The guys in Montreal (Canada) were using AFSK 2400 baud in 1980, but I think the Vancouver board used Bell 202.. OK, even so, show me a 1982 Vancouver 9600bps TNC (on the air in 1982). While I don't have any conclusive proof, there were even CNC (DCC) papers titled "Where oh where is my high speed data" up until K9NG's paper in 1985. I don't think you had any 9600bps stuff on the air in 1982, U.S. made or otherwise.

> It was at the SAME time that we in AMRAD were  
> writing the AX.25 SPEC!

Doug never wrote AX.25 for the Vancouver board nor did it ever support it to my knowledge. It had its own ID protocol, which used station ID's, numbers from 0 to 255 although he later extended it. By that time TAPR's TNC1 was out and the rest is history. While AMRAD/TAPR/AMSAT may have been writing the 'spec' for AX.25, this conversation was with regards to available equipment 18 years ago (1982).

> > In 1985 ... we had our first 9600bps modem design,  
> > from K9NG. TAPR shortly picked this up as a kit later in 1985/86.  
>  
> OK, I was wrong. 9600bd was 15 instead of 18 years ago..

You said 9600bps TNC, implying a off the shelf device, which would put it about 10 years ago.... my point being is that we in the U.S. had a smaller window of opportunity then the Europeans, relative to widespread internet adoption. This, in my opinion, is the smoking gun and the main reason (but not only) for the difference you are seeing.

Now, the thing your missing in the whole conversation is APRS is the killer mobile app that can (and has) brought back packet. As such, our reasons for good 9600bps performance are even stronger then before. I think its to everyone's advantage to pressure the manufacturers to put out a well performing 9600bps radio, even though not many are yet using them on APRS.

And since I am being preachy, in the bigger picture I'd also suggest we use technology outside of our domain, when possible. There has been alot of prior art we have ignored, as well as things going on today, that might be of benefit to APRS. It is out there for the taking.

> Still today, in  
> 2000, I do not see 9600 baud in general use in the USA. I think anyone  
> should be able to see that point.

Hey, and even I saw your point! I was just questioning your data in this specific case, and not your conclusion. Just wanted you to be accurate, even though your final point was the same. 9600 baud critical mass didn't miss by much in the U.S., and with the support of the APRS community, and pressure on the manufacturers to put out a good product, it's not too late. Two Kansas companies have put out decent data radios (Kantronics with the defunct D4-10, TEKK to this day with the KS-960) and if they can do it for \$129, I don't see why the flashy bell and whistle amateur radio companies can't do it at \$500+.

-Jeff

---

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## 518. [aprssig] 1200 vs 9600 vs 56000

From: Dale Heatherington <dale@wa4dsy.net>  
Date: Mon, 18 Dec 2000 16:08:50 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125273-2000.12.18-15.21.31--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I've not been following this 9600 vs 1200 thread closely but I'm curious how 9600 compares with 56000. Below is the test results for my modem. If the BER for 9600 was posted earlier I missed it.

WA4DSY 56KB RF modem bit error rate test.

Errors counted during 18 seconds (1 million bits)

| uV | DBM | bit error count |
|----|-----|-----------------|
|----|-----|-----------------|

|      |      |       |
|------|------|-------|
| 0.56 | -112 | 51091 |
| 0.63 | -111 | 26073 |
| 0.71 | -110 | 8343  |
| 0.89 | -109 | 1939  |
| 1.0  | -108 | 443   |
| 1.1  | -107 | 36    |
| 1.2  | -106 | 0     |

\*note: performance degrades about 1 db if the carrier is +/- 5khz off frequency.

--  
Dale Heatherington  
dale@wa4dsy.net  
Web Page <http://www.wa4dsy.net>  
Sent by KMail for Linux

---  
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---

## 519. [aprssig] Re: 9600bps radios

From: Mark Fellhauer <[sparkfel@primenet.com](mailto:sparkfel@primenet.com)>  
Date: Mon, 18 Dec 2000 15:11:02 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-125274-2000.12.18-15.25.36--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-125274-2000.12.18-15.25.36--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

At 01:21 PM 12/18/00, Timothy J Salo wrote:

>Well, it may be unlikely, given that we appear to two guys who are neither  
>able to let the other have the last word nor able to definitely provide the  
>last word themselves.

Which is why I stopped when Stan asked me to. Perhaps we can talk about  
Powerpole connectors now. :)

(sorry)

73,

Mark

---  
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---

## 520. [aprssig] Re: HD-4040 problem

From: Eric Cuthbert <[cuthbert@sympatico.ca](mailto:cuthbert@sympatico.ca)>  
Date: Mon, 18 Dec 2000 16:37:03 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-125277-2000.12.18-15.50.23--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-125277-2000.12.18-15.50.23--lyris.aprssig#tapr.org@lists.tapr.org)>  
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Something also has to be said for finding, fixing and resolving ones own  
problems. It might be easier to buy or build something new but you will  
appreciate your equipment more if you know how to fix or have fixed it  
yourself. As well as learn something new. That is part of our hobby!

I think you should fix it first, then if you wish, you could give/sell  
it to some deserving ham starting out in Packet Radio for the first  
time.

Just an opinion.

--73-- Eric/va3ewc

Mark Fellhauer wrote:

snip

> Earl, give the 4040 a proper burial or put it in the attic with the Vic  
> 20. ;-)  
>  
> A recent issue of QST had a low cost PIC based Kiss TNC featured in it. It  
> might be easier to build something new. Plus the new unit is much much  
> smaller and can be powered by a 9 volt battery (if I remember correctly).  
>  
> 73,  
>  
> Mark  
> KC7BXS  
>  
> ---  
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--  
Where's Eric ?? <http://map.findu.com/va3ewc-9>

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## 521. [aprssig] Re: 9600 Baud Cxxx

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Mon, 18 Dec 2000 15:36:27 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125278-2000.12.18-15.50.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 02:52 PM 12/18/00, Jeff King wrote:

>Now, the thing your missing in the whole conversation is APRS is the  
>killer mobile  
>app that can (and has) brought back packet. As such, our reasons for good  
>9600bps  
>performance are even stronger then before. I think its to everyone's  
>advantage to  
>pressure the manufacturers to put out a well performing 9600bps radio,  
>even though  
>not many are yet using them on APRS.

The problem being that current amateur radio 9600 BPS technology (even with data radios) is not well suited for terrestrial mobile applications. Both Phil Karn (KA9Q) and Dale Heatherington (WA4DSY) have written about the severe shortcomings of conventional packet schemes especially when it comes to things like multipath distortion.

Debating this issue now is like revisiting the Lincoln/Douglas Debates. It's time to start rethinking high-speed mobile data transmission protocols rather than arguing about technology that never left the starting gate 10 years ago. Let's move forward and forget about what is largely in the past.

I have a KPC-9612 Plus which currently Kantronics is selling for \$350 - not one person has shown an interest in purchasing mine despite me advertising it several times on the SIG for a reasonable price.

73,

Mark

---  
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## 522. [aprssig] Re: Changeing callsign in APRSdos

From: Arte Booten <n2zrc@webspan.net>  
Date: Mon, 18 Dec 2000 13:09:33 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125281-2000.12.18-16.12.14--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

Hi all,

Bob B. wrote, in response to Stephen K's:

>>I'd like to add a ssid to my call. How do I change the callsign?

with:

>Edit the first two lines in the C:\CFIG8??.APR file

```
When you do this, be sure you overwrite the empty spaces between
the callsign and datestamp. 73
+-----+
|Arte Booten <n2zrc@arrl.net> AEC for Digital Services, NYC ARES/RACES|
|Riverdale, New York [FN30bu] !4052.71N/07354.06WNPHG5370/A=00240|
|Packet: N2ZRC@KB2VLX.#BRONX.NY.USA.NA HTX-202/RS Brick/KPC-3 6.0/X-510|
|PGP Key Fingerprint: D73E B889 C630 6F4A F31F 3083 56BD 0AAD 9996 3B03|
+-----+
```

---

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## 523. [aprssig] Re: 9600bps radios

From: "Robert Donnell" <kd7nm@pugetsound.net>  
Date: Mon, 18 Dec 2000 14:02:19 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125282-2000.12.18-16.17.01--lyris.aprssig@lists.tapr.org>  
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Bob and all,

I think we would all have been better off if Kenwood hadn't even provided 9k6 packet operation at all - just because so far the only radios that the major manufacturers have made that have a both a well executed receiver and a well executed transmitter for 9k6 packet, that do not require modification have been the top-line satellite radios. I do not include the new Alinco or the D700 in this category, just because there hasn't been any definitive testing that I've seen. With the exceptions above noted, due to lack of data, none of the FM-only radios that claim 9k6 operation appear able to transmit FSK properly.

The manufacturers want to claim the capability, but are unwilling to expend the engineering effort to do the job correctly.

None of the radios I've seen that perform FSK modulation by swinging the PLL VCO do it right because the self-correcting characteristics of the PLL remove the low-frequency components of the 9k6 transmit waveform. This has the effect of causing the center frequency of the transmitted signal to wander around as much as 2-3 kHz. This causes the signal to be wider than it should be, assuming that the FSK frequency changes produce the proper 5.5-6.0 kHz change in frequency (double the correct +/- 2.75-3.0 kHz deviation). That also means that much too often, the received signal will deviate out to the edge of the IF (or beyond), where filter group delay issues rear their heads. But even more important is that the demodulating modem can get a signal that can't be decoded, because the voltage decision points that the modem has to use to decide whether an FSK jump occurred or not can lie outside the voltage swing of the signal received from the radio.

The effects of a transmitter like I'm describing can easily be viewed by connecting a digital storage oscilloscope (the most common variety, these days) via DC coupling directly to an FM receiver's discriminator - and it has to be a DC-coupled discriminator - many chip-based FM demodulators are not. Observing the signal during those periods where the 9k6 signal has no transitions for 4 or more bit times will tell the story - if the signal starts returning to a zero-volt offset from the upper and lower excursions of the transition at the beginning of that time, then the phase-locked loop is "correcting" the frequency error imposed by the modulation signal from the modem in a sufficiently aggressively way that the signal is probably too distorted to achieve a decent bit-error rate.

And the cost to "do it right" - at the volume that these manufacturers buy parts, the trim pot (if needed), varicap diode, two or three resistors, and maybe a choke - should be around \$0.50 per band or less. This would be the price to add parts to 'rubber' the PLL reference crystal around to keep the PLL believing it was locked, and not needing to perform frequency

correction. Perhaps the biggest expense would be on the alignment bench, where a square wave (or bandwidth-limited square wave) in the 20-100 Hz range would need to be applied to the 9k6 modulation input, and the aforementioned trim pot adjusted to reproduce the square wave at the bench test receiver's discriminator.

As soon as I get settled in a new home, I'm looking forward to trying mobile 9k6 aprs by way of our local 2 meter 9k6 bit-regenerating repeater. I'll probably try to get some of the local D700 owners to try their luck too. And we might also try the 70 centimeter 9k6 repeaters too. I'm very interested in seeing if the BER is low enough, and/or we're able to get more packets through due to shorter packets providing less opportunity for mobile flutter to damage packets.

I'm also hoping that a request I've heard about of Tom McDermott to do an engineering comparison of 1k2 AFSK over FM vs. 9k6 FSK as data transmission techniques is able to surface soon.

-----Original Message-----

From: bounce-aprssi-17768@lists.tapr.org  
[mailto:bounce-aprssi-17768@lists.tapr.org] On Behalf Of Bob Bruninga  
Sent: Monday, December 18, 2000 10:53 AM

>Could this possibly end the Great 9600 baud Debate?

--- rest of message not included ---

Looks like the answer is not yet.

73, Bob

-----  
Robert Donnell, KD7NM (206) 542-7661  
18828 Midvale Ave N mailto:kd7nm@pugetsound.net  
Shoreline, WA 98133  
Western Washington Amateur IP Address Coordinator  
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## 524. [aprssi] Re: 9600 Baud Cxxx

From: Jeff King <jeff@aerodata.net>  
Date: Mon, 18 Dec 2000 17:15:57 -0500  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssi@lists.tapr.org>  
Message-ID: <LYR842-125285-2000.12.18-16.26.22--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Mark Fellhauer wrote:

>

>

> The problem being that current amateur radio 9600 BPS technology (even with  
> data radios) is not well suited for terrestrial mobile applications. Both  
> Phil Karn (KA9Q) and Dale Heatherington (WA4DSY) have written about the  
> severe shortcomings of conventional packet schemes especially when it comes  
> to things like multipath distortion.

Your 100% right, if your talking bit smearing, at speeds around 56kbaud and higher it starts to become a real issue, in particular with omni antennas in urban canyons. This is one advantage of DSSS. It is not much of a practical issue at 9600bps, in particular if you apply some mild FEC that a PIC could handle.

> Debating this issue now is like revisiting the Lincoln/Douglas  
> Debates. It's time to start rethinking high-speed mobile data  
> transmission protocols rather than arguing about technology that never left  
> the starting gate 10 years ago.

Says you. Quite a few commercial operators are selling 9600bps equipment in the states, some of it even has decent performance at a good price. And has Henk has pointed out, the majority of Europe is at 9600bps or higher. Hardly not leaving the "starting gate", even though things could be better.

> Let's move forward and forget about what  
> is largely in the past.

I'm starting to think I'm in a episode of back to the future. Ahh... Scotty, engage the NNC, we are about to go to PI2 speed.

> I have a KPC-9612 Plus which currently Kantronics is selling for \$350 - not  
> one person has shown an interest in purchasing mine despite me advertising  
> it several times on the SIG for a reasonable price.

When you can buy a 9600baud brand new TNC for less then half the cost, that might explain it. Don't equate market factors to technical factors.

The reason this is dragged on is because so many issues are getting rolled into one. If you break things apart, then it becomes much more clear. Yet the answer is still the same.

-Jeff

---

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---

## 525. [aprssig] Did I miss Something

From: "Pitts, Charles" <[cpitts04@sprintspectrum.com](mailto:cpitts04@sprintspectrum.com)>  
Date: Sat, 16 Dec 2000 13:41:40 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-125286-2000.12.18-16.37.27--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I don't know if I missed something or is the moderators of the sig reading my thoughts.... kinda scary.... but I just happened to notice that the posts are now numbered and are easier to locate specific topics. How long has been happening. I actually first noticed it a few days ago.

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---

## 526. [aprssig] RE: by the way RE: 9600 bps Radios

From: "Pitts, Charles" <[cpitts04@sprintspectrum.com](mailto:cpitts04@sprintspectrum.com)>  
Date: Sun, 17 Dec 2000 00:57:33 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-125289-2000.12.18-16.52.36--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Just a thought. If you have access to microsfot outlook and/or outlook express and set it to send mail through aol as POP3 mail you would have the option to choose sending either text only or HTML email. On a personal note I have had several friends that had errors and misdealings with AOL including myself, I try to stay as far away as possible.

on another note...

re: 9600 bps Radios

>>>>As a final comment - I think it would really benefit Kenwood if they did some sort of beta testing of the radios in the different environments in which they are going to be used.<<<<

I know we as Amateur Radio operators do and use a lot of experimental testing on equipment, as well as spend enormous amounts of money on equipment, because it is in our nature. But to the manufacturers we are the Beta testing grounds to experiment with the products to find all the bugs and/or finer points before some of the same technology is introduced to some of the more viable of professional use. I know that our jobs in the case of emergencies can be critical, but at the same time we do not use equipment for one specific purpose and/or be as rough on equipment as it may be, say, in the rescue fields, or emergency communications. We are the ones that can help the manufacturers make a better product for those that may save the lives of our families and friends, We are the Beta testers.

---

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## 527. [aprssig] RE: 9600

From: Jeff Reinhardt <jreinhardt@ix.netcom.com>  
Date: Mon, 18 Dec 2000 14:48:47 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125292-2000.12.18-17.03.35--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Those desiring an "off the shelf" 2m 9600 bps transceiver that does the job very well should search for an Alinco DR-1200TH data radio. This unit was designed to support 9600 bps data operations ONLY (no voice, no 1200 bps operations supported and the radio was not user-modifiable back to voice use). The transmit and receive audio injection and interception points are different on this model. The DR-1200TH has a reputation as a very reliable unit. Alinco discontinued the model some time ago but those who have owned them (generally operators of forwarding backbones) gave them very high grades. There are a few of these units that crop up from time to time in various ham radio sales postings. There may even be a store or two with new units on the shelf.

BTW, a review of the new DR-135 2m mobile with 1200/9600 internal TNC is scheduled to appear in the January 2001 QST.

Jeff Reinhardt AA6JR

---

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---

## 528. [aprssig] Re: 1200 vs 9600 vs 56000

From: Bob Bruninga <bruninga@usna.edu>  
Date: Mon, 18 Dec 2000 17:53:45 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125294-2000.12.18-17.07.59--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Thanks Dale for your 56K radio data (below),

Great data! Is it fair then to translate this to comparable 9600 baud performance (about 7 dB better (56k/9.6k)) and if we go for about .95 uv in your data below as being about 1-in-10<sup>-3</sup> then this would equate to about 0.4 uv for a comparable 9600 bd system?

My tests of 0.5 uv for the Kenwood were not to a BER, but to getting 9-out-of-10 packets correctly. These packets could have been as short as about 40 bytes (320 bits) each.

de WB4APR, Bob

On Mon, 18 Dec 2000, Dale Heatherington wrote:

```
> Below is the test results for my modem. (1 million bits)
>
> uV      DBM      bit error count
>
> 0.56    -112      51091
> 0.63    -111      26073
> 0.71    -110      8343
> 0.89    -109      1939
> 1.0     -108      443
> 1.1     -107      36
> 1.2     -106      0
>
> *note: performance degrades about 1 db if the carrier is +/- 5khz off
> frequency.
>
>
> --
> Dale Heatherington
> dale@wa4dsy.net
> Web Page http://www.wa4dsy.net
> Sent by KMail for Linux
>
>
> ---
> You are currently subscribed to aprssig as: bruninga@usna.edu
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> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org
```

>  
>

de WB4APR@amsat.org, Bob

See my APRS LIVE pages      <http://web.usna.navy.mil/~bruninga/aprs.html>  
See APRS SATELLITES        <http://web.usna.navy.mil/~bruninga/astars.html>  
See MIM/Mic-E/Mic-Lite      <http://www.tapr.org/tapr/html/mic-e.html>

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---

## 529. [aprssig] Re: 9600 Baud Cxxx

From: Mark Fellhauer <[sparkfel@primenet.com](mailto:sparkfel@primenet.com)>  
Date: Mon, 18 Dec 2000 17:02:00 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-125296-2000.12.18-17.21.04--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 04:15 PM 12/18/00, Jeff King wrote:

> > Debating this issue now is like revisiting the Lincoln/Douglas  
> > Debates. It's time to start rethinking high-speed mobile data  
> > transmission protocols rather than arguing about technology that never left  
> > the starting gate 10 years ago.

>  
> Says you. Quite a few commercial operators are selling 9600bps equipment in  
> the states, some of it even has decent performance at a good price. And  
> has Henk  
> has pointed out, the majority of Europe is at 9600bps  
> or higher. Hardly not leaving the "starting gate", even though things could be  
> better.

Talk about spins, Jeff? I was directly referring to 9600 BPS packet in the US Ham Community being a non-starter. And again, I'm referring to what we want it for, which is mobile APRS applications. Adding that in Europe they use 9600 BPS extensively (for fixed point-to-point packet) really means nothing. We have plenty of the same in the US. But for the ham on the street - 9600 died before it arrived.

When I lived in Phoenix we had a 9600 bps bit-regen mountaintop digi. A lot of guys from Motorola and Honeywell spent many an hour trying to get decent mobile performance (car to car) from it and finally gave up. I was a member of the Phoenix Packet User's Group and the Packet Coordinator of the Thunderbird (Honeywell) ARC at the time, and despite our pleas, they abandoned the project. If these guys, who are RF engineers, weren't happy with the results they were getting with well-engineered equipment 3-4 years ago - I don't think anything has changed. We need to develop and implement newer protocols and techniques.

Selling 9600 bps equipment is not the same as it performing well. I've read horror stories from companies and government agencies who've purchased "high speed" 9600 bps commercial mobile AVL and data systems only to never have them work as advertised.

73,

Mark  
KC7BXS

---

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---

## 530. [aprssig] Re: HD-4040 problem

From: Mark Fellhauer <[sparkfel@primenet.com](mailto:sparkfel@primenet.com)>  
Date: Mon, 18 Dec 2000 17:19:08 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-125298-2000.12.18-17.33.24--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain



At 03:37 PM 12/18/00, Eric Cuthbert wrote:

>Something also has to be said for finding, fixing and resolving ones own  
>problems. It might be easier to buy or build something new but you will  
>appreciate your equipment more if you know how to fix or have fixed it  
>yourself. As well as learn something new. That is part of our hobby!

And it also goes to show that you can't please anyone on the SIG. I have taken severe heat on this SIG in the past for not promoting Kit Building and when I do, it makes someone unhappy.

Having owned my share of older TNC's as well as doing a good amount of troubleshooting other people's TNC's, I have a pretty keen insight of the operation and construction of TAPR-1 and TAPR-2 clones. These older TNC's become less and less reliable as they age, and you can spend a great deal of time troubleshooting and repairing them only to have a still-balky 15 year-old TNC. We've had many years to refine TNC technology and a KPC-3 plus works much better than a NEW HD-4040 ever did.

The "learning something new" argument is a tired one. And the only thing you'll learn to appreciate after working on an HD-4040 is that they don't make TNC's this way anymore. Working on a discrete component circuit board TNC from 15 years ago, doesn't teach us anything new. Most of here know a little bit about electronics already and how to do basic diagnosis and soldering of these components. Earl also pointed out he has absolutely no documentation on this TNC.

On the other hand - retiring this HD-4040 and replacing with the KISS-mode TNC kit featured in the November 2000 issue of QST has plenty of benefits. It's a modern IC design with a minimum of discrete components. It's based on a PIC chip. PICs are modern and microcontrollers like this are the hottest thing to hit the electronics hobby market ever. Not everyone has yet done a project with them. So indeed, you might learn something new there. The new KISS-mode TNC is small and uses very little power. Ever seen an HD-4040? It's big bulky and runs on 120 volts AC (it has an internal power supply!). The KISS-mode TNC is designed to work with GPS's and APRS in particular - the HD-4040 is not.

I also take issue with fixing it and giving it to a newbie ham. First-off if you give a new ham something old and prone to breaking - especially with no documentation, you'll still be the one supporting it. Also, if you want someone to stay with a hobby you need to be reasonably sure to guarantee their success. Giving someone a 15 year-old TNC that locks up in TX or stops responding or any of the other quirks that 15 year-old TNC's exhibit is not going to give someone new a favorable impression of packet. Nor is he going to make any friends when the TNC locks up in transmit on 144.39 Mhz.

If I were to take up scuba diving I would hope my mentor wouldn't give me his 15 year-old respirator that had a tendency to "stick closed" every now and then...

Better to mentor a ham in building or buying something new (or reasonably new) that will work as advertised and has some association with more current equipment.

But it's ultimately Earl's decision. Mine is just an opinion. :)

73,

Mark  
KC7BXS

---

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## 531. [aprssig] RE: 9600

From: "Robert Donnell" <kd7nm@pugetsound.net>  
Date: Mon, 18 Dec 2000 15:33:56 -0800

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125305-2000.12.18-17.48.51--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi Jeff, and all,

When I worked at AEA, Alinco sent us a DR-1200TH to test. It had the same transmit problem as the majority of radios I have tested. In fact, it was worse than most. And Alinco didn't try to fix it. I could not recommend the DR-1200TH to ANYONE as a radio for use on 9k6 packet. Yes, they did tie the modulation point into the PLL, bypassing the TX audio processing, and they also did connect directly to the demodulator. It received OK, but trying to send much more data than a connect or ack packet would produce errors. Alinco whimped out on this radio, trying to hack an existing design into something it would never be. Again, for probably \$0.50 in parts, they could probably have made it work.

-----Original Message-----

From: bounce-aprssi-17768@lists.tapr.org  
[mailto:bounce-aprssi-17768@lists.tapr.org] On Behalf Of Jeff Reinhardt  
Sent: Monday, December 18, 2000 2:49 PM  
To: TAPR APRS Special Interest Group  
Subject: [aprssi] RE: 9600

Those desiring an "off the shelf" 2m 9600 bps transceiver that does the job very well should search for an Alinco DR-1200TH data radio.  
---- more deleted ----

73, Bob

-----  
Robert Donnell, KD7NM (206) 542-7661  
18828 Midvale Ave N mailto:kd7nm@pugetsound.net  
Shoreline, WA 98133  
Western Washington Amateur IP Address Coordinator  
-----

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## 532. [aprssi] Re: 9600 Baud Cxxx

From: David VanHorn <dvanhorn@cedar.net>  
Date: Mon, 18 Dec 2000 18:32:56 -0500  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssi@lists.tapr.org>  
Message-ID: <LYR842-125306-2000.12.18-17.49.11--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>Selling 9600 bps equipment is not the same as it performing well. I've  
>read horror stories from companies and governemnt agenices who've purchased  
>"high speed" 9600 bps commercial mobile AVL and data systems only to never  
>have them work as advertised.

This has a close paralell in the credit card industry.  
1200 baud 212 is as fast as they've gone, because the carrier establishment takes too long, relative to the packet sizes, at higher speeds. No real benefit.

The general solution was to bunch up the packets, adding latency where possible, so that the call establishment and packet overhead got small relative to the data.

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

---

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---

## 533. [aprssi] Re: 9600 Baud

From: WA8LMF1@aol.com  
Date: Mon, 18 Dec 2000 18:43:20 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125307-2000.12.18-17.56.21--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In a message dated 12/18/2000 3:26:58 PM Pacific Standard Time,  
sparkfel@primenet.com writes:

<< Selling 9600 bps equipment is not the same as it performing well. I've read horror stories from companies and governemnt agenices who've purchased "high speed" 9600 bps commercial mobile AVL and data systems only to never have them work as advertised. >>

Agreed! ! ! I can tell you all sorts of horror stories here in the land of infinite multipath (southern Cal's endless mountains and canyons) about the never-delivered promises of throughput on commercial MDT systems based on 4800 or 9600 BPS. Of two systems I personally know of, the 2400 BPS system has about TWICE the net throughput of the "new and improved 2nd-generation" 4800 BPS one. And the management of the 4800 one is buying into mfrs claim about how great their 9600 system is!!

Stephen H. Smith                      Email:     wa8lmf@aol.com  
Homepage:                      http://members.aol.com/wa8lmf

-----  
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### 534. [aprssig] Re: 9600 Baud

From: David VanHorn <dvanhorn@cedar.net>  
Date: Mon, 18 Dec 2000 18:56:04 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125314-2000.12.18-18.11.35--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>Agreed! ! ! I can tell you all sorts of horror stories here in the land of  
>infinite multipath (southern Cal's endless mountains and canyons) about the  
>never-delivered promises of throughput on commercial MDT systems based on  
>4800 or 9600 BPS. Of two systems I personally know of, the 2400 BPS system  
>has about TWICE the net throughput of the "new and improved 2nd-generation"  
>4800 BPS one. And the management of the 4800 one is buying into mfrs claim  
>about how great their 9600 system is!!

There was an ill-fated system that was supposed to deliver credit card data  
in a single line of TV broadcast, at 3 MB/s.

I mentioned to the responsables that this required PERFECT reception, which  
was unlikely in downtown LA, where they wanted to deploy it, or over the  
cable systems..  
In the entire trial period, (30 days?) it never completed a single database  
update.  
It was supposed to take a couple hours or so.

Had they slowed the data rate down to something reasonable, they might have  
had some success, but multipath really ate their lunch.

--  
Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

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---

### 535. [aprssig] Re: 9600 Baud Cxxx

From: Jeff King <jeff@aerodata.net>  
Date: Mon, 18 Dec 2000 19:08:59 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125315-2000.12.18-18.19.50--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

David VanHorn wrote:

>  
> > Selling 9600 bps equipment is not the same as it performing well. I've  
> > read horror stories from companies and governemnt agenices who've purchased  
> > "high speed" 9600 bps commercial mobile AVL and data systems only to never  
> > have them work as advertised.  
>  
> This has a close paralell in the credit card industry.  
> 1200 baud 212 is as fast as they've gone, because the carrier establishment  
> takes too long, relative to the packet sizes, at higher speeds. No real  
> benefit.

Dave:

That is not a fair analogy. The credit card companies use Bell 103 for the primary reason its cheap and robust, and the secondary reason no training overhead is required on the lines. The low speed is not a issue because the data packets are so short. Regardless of the modem used, the level one transport layer is the same. Such is not the case with differing radios.

Now, if you where using V.29 16QSPK on packet (see my test in one of the 1991 PSR's), yes training is indeed a big issue, and these modems can take 200+ms to train up, which needs to be added to your overhead. With file transfers, such as NOS TCP/IP, not a big deal. But for brief transactions, a big deal.

APRS is a similar analogy to the credit card industry in that (most) of the data frames are similar.... short and to the point. No big file transfers, so TXD and overhead is not a big deal. As there is little additional training time for 9600bps GMSK, in particular when compared to Bell 202, I do not see your analogy. Your analogy would imply we should FAVOR 9600bps APRS with well designed radios because it reduces the transaction time, allowing more credit cards to be approved or in our case more stations to report posits over a given time frame.

In fact, the opposite analogy could be made in that well engineered radios require LESS overhead, be it Bell 202 or 9600bps GMSK. This is not what we are seeing in amateur packet radio, by and large. Another factor people have not considered is the "CSMA black hole" long turnaround times cause. That 50ms or 100ms the radio takes to stabilize between the time your TNC says to key up and the time it starts to generate RF, is a "black hole" in which other stations have no idea if you have started to transmit. Point being, the longer the attack time is, the more chance your will get collisions even in a perfect hidden terminal free CSMA network.

-Jeff

---

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## 536. [aprssig] Re: 9600 Baud

From: WA8LMF1@aol.com  
Date: Mon, 18 Dec 2000 19:13:41 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125316-2000.12.18-18.26.58--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In a message dated 12/18/2000 3:59:30 PM Pacific Standard Time,  
dvanhorn@cedar.net writes:

<< There was an ill-fated system that was supposed to deliver credit card data in a single line of TV broadcast, at 3 MB/s.

I mentioned to the responsables that this required PERFECT reception, which was unlikely in downtown LA, where they wanted to deploy it, or over the cable systems.. >>

Not to mention that this multipath issue is threatening to sink the entire Digital/HDTV rollout.

It's so intolerant of multipath-induced bit-errors at the megabits-per-second transmission rate that in about 1/3rd of randomly choosen locations in

strong-signal urban and suburban areas you get no picture at all off-the-air!  
The HDTV on-air tests were done in the flat lands of suburban Maryland;  
apparently no one thought about western terrain or the urban concrete canyons  
of New York or Chicago!

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### 537. [aprssig] RE: 9600

From: Bob Nielsen <[nielsen@oz.net](mailto:nielsen@oz.net)>  
Date: Mon, 18 Dec 2000 16:28:17 -0800  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-125318-2000.12.18-18.42.36--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-125318-2000.12.18-18.42.36--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

I recall that Azden had a radio about the same time which modulated a  
fixed frequency oscillator, rather than the PLL, and used a heterodyne  
circuit. I never saw one, but heard that they had achieved fairly good  
9600 performance, as do many of the all-mode radios which do the  
modulation on a fixed oscillator.

Bob

On Mon, Dec 18, 2000 at 03:33:56PM -0800, Robert Donnell wrote:

> Hi Jeff, and all,  
>  
> When I worked at AEA, Alinco sent us a DR-1200TH to test. It had the same  
> transmit problem as the majority of radios I have tested. In fact, it was  
> worse than most. And Alinco didn't try to fix it. I could not recommend  
> the DR-1200TH to ANYONE as a radio for use on 9K6 packet. Yes, they did tie  
> the modulation point into the PLL, bypassing the TX audio processing, and  
> they also did connect directly to the demodulator. It received OK, but  
> trying to send much more data than a connect or ack packet would produce  
> errors. Alinco whimped out on this radio, trying to hack an existing design  
> into something it would never be. Again, for probably \$0.50 in parts, they  
> could probably have made it work.  
>  
> -----Original Message-----  
> From: [bounce-aprssig-17768@lists.tapr.org](mailto:bounce-aprssig-17768@lists.tapr.org)  
> [mailto:[bounce-aprssig-17768@lists.tapr.org](mailto:bounce-aprssig-17768@lists.tapr.org)]On Behalf Of Jeff Reinhardt  
> Sent: Monday, December 18, 2000 2:49 PM  
> To: TAPR APRS Special Interest Group  
> Subject: [aprssig] RE: 9600  
>  
>  
> Those desiring an "off the shelf" 2m 9600 bps transceiver that does the  
> job very well should search for an Alinco DR-1200TH data radio.  
> ---- more deleted ----  
>

> 73, Bob

>

> -----  
> Robert Donnell, KD7NM (206) 542-7661  
> 18828 Midvale Ave N <mailto:kd7nm@pugetsound.net>  
> Shoreline, WA 98133  
> Western Washington Amateur IP Address Coordinator  
> -----  
>  
>

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--

Bob Nielsen, N7XY [nielsen@oz.net](mailto:nielsen@oz.net)  
Bainbridge Island, WA <http://www.oz.net/~nielsen>

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### 538. [aprssig] Re: 9600 Baud Cxxx

From: David VanHorn <dvanhorn@cedar.net>  
Date: Mon, 18 Dec 2000 19:42:47 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125319-2000.12.18-18.58.31--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 07:08 PM 12/18/00 -0500, Jeff King wrote:  
>

>That is not a fair analogy. The credit card companies use Bell 103 for the  
primary  
>reason its cheap and robust, and the secondary reason no training overhead  
is required  
>on the lines.

Actually, that's not correct. I was there when these decisions were made.  
The transaction delay was a FAR more significant issue than the additional  
cost.  
HyperCom made a lot of money, first selling hubs to the banks, then selling  
terminals that violated the 212 spec when talking to their hubs, gaining  
roughly one second speed advantage.

The low speed is not a issue because the data packets are so short.  
Regardless  
>of the modem used, the level one transport layer is the same. Such is not the  
>case with differing radios.

A single transaction is roughly similar to an APRS packet, except that it  
requires a reply, and there is an ack-nak protocol with retries.

The call establishment though, is where I am looking at the similarity.  
The dialing/answer interval is the same for everyone, so it factors out.  
The carrier establishment phase is where it gets interesting.  
103 is pretty quick on the uptake. I forget the numbers, but IIRC, it's  
faster than 212 before the originator is clear to send.  
However, 2400 and up are so much slower to train, that 212 can get a whole  
packet through before the "faster" modem trains and is ready to send.

So, with short messages (similar to APRS packets) the "fast" modems loose.

With longer packets, the gain in higher transmission speeds gets closer to  
reality, but in that world, they still haven't broken through. There isn't  
much except an application download or batch settlement that really would  
benefit from the higher speeds, and you don't do those very often.

>Now, if you where using V.29 16QSPK on packet (see my test in one of the  
>1991 PSR's), yes training is indeed a big issue, and these modems can take  
>200+ms to train up, which needs to be added to your overhead. With file  
>transfers, such as NOS TCP/IP, not a big deal. But for brief transactions,  
>a big deal.

Like APRS packets.

>APRS is a similar analogy to the credit card industry in that (most) of the  
>data frames are similar.... short and to the point. No big file transfers,  
>so TXD and overhead is not a big deal.

You don't generally have one station making a lot of packets in a short  
time, but you do have a lot of stations making a packet in a short time.

$A*B = B*A$

>As there is little additional training time  
>for 9600bps GMSK, in particular when compared to Bell 202, I do not see your  
>analogy. Your analogy would imply we should FAVOR 9600bps APRS with well  
designed  
>radios because it reduces the transaction time, allowing more credit cards  
to be  
>approved or in our case more stations to report posits over a given time  
frame.

Provided that you can aquire carrier as fast, then I think this is an  
improvement.  
Now we have to ask wether the remaining speed gain is significant enough to  
justify the cost.

>In fact, the opposite analogy could be made in that well engineered radios  
>require LESS overhead, be it Bell 202 or 9600bps GMSK. This is not what we

>are seeing in amateur packet radio, by and large.

I'm not sure what you mean here..

FWIW, I did discover that a stock MCX-100 radio can be used with a KPC-3 and a TXD setting of "6". I upped it to "9" to be sure. My test wasn't extensive, just making sure that it got repeated by all the digis in earshot. Beats the TH-D7's "50" by a ton! The closest digi is an identical KPC-3, with a Kenwood TR-7400 mobile rig.

If you mean that engineering the radio properly would help either case, well of course..

>Another factor people  
>have not considered is the "CSMA black hole" long turnaround times cause.  
>That 50ms or 100ms the radio takes to stabilize between the time your TNC  
>says to key up and the time it starts to generate RF, is a "black hole" in  
>which other stations have no idea if you have started to transmit. Point  
>being, the longer the attack time is, the more chance your will get  
collisions  
>even in a perfect hidden terminal free CSMA network.

CSMA is about 50% effective I think, in my local system.

Full duplex on 440, with slotted aloha, or a polling system is what I have my money on. Keep the 2M link to advertize the whereabouts (in four dimensions :) of the local 440 net. Would take some designing, building, and programming, none of which I am averse to. Mobiles would train up and stay there, digi would train on each incoming. The digi always has more to say than the mobiles, anyway.

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

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### 539. [aprssig] Re: 9600 Baud

From: Mark Fellhauer <[sparkfel@primenet.com](mailto:sparkfel@primenet.com)>  
Date: Mon, 18 Dec 2000 18:48:41 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-125320-2000.12.18-19.03.57-lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-125320-2000.12.18-19.03.57-lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

At 05:56 PM 12/18/00, David VanHorn wrote:

>There was an ill-fated system that was supposed to deliver credit card data  
>in a single line of TV broadcast, at 3 MB/s.

Sounds like intercast. Can't remember the name of the company that developed it, but they were based out of Phoenix. I have a STB TV tuner that receives intercast broadcasts. Even though it was developed like 20 years ago it never caught on and is now obsolete...

Mark

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### 540. [aprssig] DX data from the internet

From: [Qrpvhf@aol.com](mailto:Qrpvhf@aol.com)  
Date: Mon, 18 Dec 2000 20:39:15 EST  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-125332-2000.12.18-19.51.44-lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-125332-2000.12.18-19.51.44-lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Is it possible to catch the dx data available on the internet and feed it out over the aprs freq. What I was looking at doing was I had heard mention of dx spots going out on the aprsserve network and was wanting to rebroadcast them locally like we do the NWS-WARN,NWS-WATCH type data.

This would be done on a Linux APRSD system (W8CUL-2/aprsdMGTN)

Jacob Tennant,K8JWT

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## 541. [aprssi] Re: 1200 vs 9600 vs 56000

From: Dale Heatherington <dale@wa4dsy.net>  
Date: Mon, 18 Dec 2000 22:02:00 -0500  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-125345-2000.12.18-21.14.15-lyris.aprssi@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Monday 18 December 2000 17:53, Bob Bruninga wrote:

> Thanks Dale for your 56K radio data (below),  
>  
> Great data! Is it fair then to translate this to comparable 9600 baud  
> performance (about 7 dB better (56k/9.6k)) and if we go for about  
> .95 uv in your data below as being about 1-in-10<sup>-3</sup> then this would equate  
> to about 0.4 uv for a comparable 9600 bd system?

Yeah, that seems to be in the ballpark. I get 7.66 db expected difference between 56K and 9.6K.  $7.66 = 10 \log(56000/9600)$

So, the voltage ratio required to reduce the power 7.66 db is  
 $\text{SQRT}(56000/9600) = 2.42$   
.95uv / 2.42 = .39uv = 9600 equiv.

I hope my math is right.... I'm sure someone will point out any errors both conceptual and mathematical :-)

FYI, the 56K receiver is an FM quadrature detector chip, a design very commonly used in FM radios.

So, depending on ones point of view, the Kenwood is almost as good as the 56K modem or... the 56K modem is almost as bad as the Kenwood. Anyway, the difference is 2.1 db after correcting for the baud rate differences.

> My tests of 0.5 uv for the Kenwood were not to a BER, but to getting  
> 9-out-of-10 packets correctly. These packets could have been as short as  
> about 40 bytes (320 bits) each.

>  
> de WB4APR, Bob

>  
> On Mon, 18 Dec 2000, Dale Heatherington wrote:  
> > Below is the test results for my modem. (1 million bits)

> >  
> > uV        DBM            bit error count  
> >  
> > 0.56     -112           51091  
> > 0.63     -111           26073  
> > 0.71     -110           8343  
> > 0.89     -109           1939  
> > 1.0       -108           443  
> > 1.1       -107           36  
> > 1.2       -106           0

> >  
> > \*note: performance degrades about 1 db if the carrier is +/- 5khz off  
> > frequency.

--

Dale Heatherington  
dale@wa4dsy.net  
Web Page <http://www.wa4dsy.net>  
Sent by KMail for Linux

---

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## 542. [aprssig] KAM v8.2 Problem

From: "Fred Coe" <wa0rto@cts.com>  
Date: Mon, 18 Dec 2000 21:34:22  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125349-2000.12.18-21.47.18--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Howdy,

Apparently my KAM w/8.2 needs to have the capacitors replaced again.

It has been almost a year since I last did this (I remember, cause it was last Christmas).

I know this is a fairly common problem with the older KAMs (and this one is 13 years old) and I've replaced them a couple of times, however not as quickly as this time. Since this TNC has been in service for APRS 24/7 since last year, I was wondering if this is common replacement interval?

I appreciate your comments.

73

Fred  
WA0RTO

---

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## 543. [aprssig] Re: KAM v8.2 Problem

From: Glenn Wiebe <gswiebe@mb.sympatico.ca>  
Date: Mon, 18 Dec 2000 21:59:11 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125351-2000.12.18-22.12.31--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

What capacitors? Mine is 12 yrs. old, I've never replaced any. It has been running 24/7 for at least the last 3-4 yrs. Sounds like I'm pretty lucky.

Glenn...VE4GN

Fred Coe wrote:

> Apparently my KAM w/8.2 needs to have the capacitors replaced again.  
>  
> It has been almost a year since I last did this (I remember, cause it was  
> last Christmas).  
>  
> I know this is a fairly common problem with the older KAMs (and this one is  
> 13 years old) and I've replaced them a couple of times, however not as  
> quickly as this time. Since this TNC has been in service for APRS 24/7  
> since last year, I was wondering if this is common replacement interval?

---

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## 544. [aprssig] RE: 9600

From: "Robert Donnell" <kd7nm@pugetsound.net>  
Date: Mon, 18 Dec 2000 20:25:59 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125356-2000.12.18-22.38.49--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi Bob, and all

I believe you're right about that Azden. I'm not aware of anyone here in the Seattle area that tried one though.

My first 9k6 radio was an Icom IC-290, which like SSB radios in general, has a transmit IF strip as well as a receive IF strip (or they are combined).

To generate the FM signal, the carrier oscillator was deviated the - not the PLL.

It so happens that the Icom IC-22S uses the same transmit scheme, and therefore is able to generate a very good FSK signal. While at AEA, I did some non-rigorous on-air comparisons in performance, using the local 9k6 packet repeater and pinging my home station. I also had a company IC-28 that I modified for PLL modulation. For some reason, this radio had much less degradation to the transmitted signal quality than most PLL modulated radios, but it could still be observed. Using 256-byte data payload packets, on an omni antenna (IsoPole anyone?) I got the following results:

IC-22S @ 8 watts - 99%+ ping returns  
IC-28A @ 25 watts - 95% ping returns  
IC-22S @ 1.5 watts - 92% ping returns  
IC-28A @ 5 watts - 85% ping returns

All test sequences at AEA were performed with the same antennas and TNCs, deviation set identically on the two radios. They were done during periods of otherwise low use of the repeater, and each ping session ran every 5 seconds for at least 15 minutes.

The IC-28A was modified to bring out the discriminator, and modulation applied to the PLL through a voltage divider, to avoid any noise or RF coupling issues with the new cable out the back of the radio.

The IC-22S was modified to apply modulation at the deviation control wiper, and receive signal is tapped on to the discriminator output ahead of the audio shaping (de-emphasis) network.

The repeater is a modified GE Mastr II mobile radio, modified to keep the receiver enabled, the PTT system continuously active, and the PTT function from the TAPR modem used to operate the "unlock inhibit" function of the radio's exciter, along with the usual direct FM modulation in the exciter. It's receiver was modified in a manner similar to the MVP listed below. Both stations were about 35 miles from the repeater site. The "carrier-to-keyup" delay on the repeater is about 70 mS, primarily due to the delay in the modem while it's phase-locking the clock to the incoming data. The keyup delay is primarily absorbed by the delay in cycling bits through the FIFO used in the regeneration process.

My home station was using a modified GE MVP commercial mobile radio. Modifications were limited to direct FM modulation of its transmitter, modifying the buffer amplifier following the discriminator to remove the de-emphasis components, allowing proper drive to the RX modem, and changing the power supply switching delay components to change the keyup delay from 70 mS to 7 mS, and the 7 mS RX delay altogether. The TR relay operates in about 3.5 mS.

The conclusion I drew from this at the time (about 1993) is that the quality of the transmitted signal makes more of a difference than the signal strength, where 9k6 signals are concerned. And one of the most important is that flat frequency response down to nearly DC is required to achieve a low bit-error rate. A PLL-modulated radio without dual-point modulation is always going to compromise the performance of such a system.

73, Bob

-----Original Message-----

From: bounce-aprssid-17768@lists.tapr.org  
[mailto:bounce-aprssid-17768@lists.tapr.org] On Behalf Of Bob Nielsen  
Sent: Monday, December 18, 2000 4:28 PM  
To: TAPR APRS Special Interest Group  
Subject: [aprssid] RE: 9600

I recall that Azden had a radio about the same time which modulated a fixed frequency oscillator, rather than the PLL, and used a heterodyne circuit. I never saw one, but heard that they had achieved fairly good 9600 performance, as do many of the all-mode radios which do the modulation on a fixed oscillator.

Bob

---

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## 545. [aprssig] Help for KB8ROP

From: Qrpvhf@aol.com  
Date: Mon, 18 Dec 2000 23:35:13 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125360-2000.12.18-22.47.23--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

There is a guy near Cleveland, Oh area callsign KB8ROP who is trying to setup a weather station under WinAPRS that could probably use some help.

He has shown up twice today on our local screens as a weather station. First his position was near Waynesburg, PA then it moved to near Kingwood, WV on the WV/MD border.

Jacob Tennant, K8JWT

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## 546. [aprssig] Re: KAM v8.2 Problem

From: Skip Allison <sallison@megsinet.net>  
Date: Mon, 18 Dec 2000 23:23:43 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125363-2000.12.18-23.37.11--lyris.aprssig#tapr.org@lists.tapr.org>  
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Mine is almost 15 years old. I replaced my caps about 8 years ago and haven't had a problem since. Did you get your replacement caps from Kantronics? Maybe they were the same kind. I just pulled some out of my parts bins. Completely different kind, but same value.

Skip  
K9SA

Fred Coe wrote:

>  
> Howdy,  
>  
> Apparently my KAM w/8.2 needs to have the capacitors replaced again.  
>  
> It has been almost a year since I last did this (I remember, cause it was  
> last Christmas).  
>  
> I know this is a fairly common problem with the older KAMs (and this one is  
> 13 years old) and I've replaced them a couple of times, however not as  
> quickly as this time. Since this TNC has been in service for APRS 24/7  
> since last year, I was wondering if this is common replacement interval?  
>  
> I appreciate your comments.  
>  
> 73  
>  
> Fred  
> WA0RTO  
>  
> ---  
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---

## 547. [aprssig] Re: Did I miss Something

From: Skip Allison <sallison@megsinet.net>  
Date: Tue, 19 Dec 2000 00:12:48 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125380-2000.12.19-00.25.51--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

"Pitts, Charles" wrote:  
>

> I don't know if I missed something or is the moderators of the sig reading  
> my thoughts.... kinda scary.... but I just happened to notice that the posts  
> are now numbered and are easier to locate specific topics. How long has been  
> happening. I actually first noticed it a few days ago.  
>

Posts are numbered? I sure don't see any numbers.

Skip  
K9SA

---  
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---

## 548. [aprssig] Re: Did I miss Something

From: Guy Story <[kc5goi@tapr.org](mailto:kc5goi@tapr.org)>  
Date: Tue, 19 Dec 2000 08:39:26 -0600 (CST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-125398-2000.12.19-08.51.35--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Skip, I do not see them numbered as they get sent to us, but if you look through the email archive, they are numbered in the header.

73,

Guy Story  
KC5G0I  
[kc5goi@tapr.org](mailto:kc5goi@tapr.org)  
<http://www.kc5goi.net>

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---

## 549. [aprssig] HSP Support in APRSDos

From: Zachary Michael <[kb9uqq\\_2000@yahoo.com](mailto:kb9uqq_2000@yahoo.com)>  
Date: Tue, 19 Dec 2000 14:09:01 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-125424-2000.12.19-13.18.28--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi Gang,  
Does APRSDos have HSP support? I have look everywhere for it, but just can't seem to find it. I am not registered, so I hope that does not matter. Thanks ahead for any information.

--  
HAVE A VERY MERRY CHRISTMAS AND A HAPPY NEW YEAR!!!!  
=====

Thanks and 73's,  
Zachary Grant Michael, KB9UQQ,  
KB9UQQ-1, KB9UQQ-6, KB9UQQ-7, KB9UQQ-9, KB9UQQ-10,  
Hartford City, Blackford County, Indiana, EN70  
4025.51 N --- 08515.29W  
E-Mail: [kb9uqq@tawg.org](mailto:kb9uqq@tawg.org)  
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<http://www.kb9uqq.net/>  
Zach's APRS Webpages  
<http://www.aprsinindiana.cjb.net/>  
Zach's APRS Software for Windows 3.1  
<http://www.qsl.net/kb9uqq/APRS.html>  
Zach's Car  
<http://www.findu.com/find.cgi/kb9uqq-9>  
Zach's Laptop  
<http://www.findu.com/find.cgi/kb9uqq-6>  
Zach's HT  
<http://www.findu.com/find.cgi/kb9uqq-7>  
Zach's Digi  
<http://www.findu.com/find.cgi/kb9uqq-10>  
Zach's House

<http://www.findu.com/find.cgi/kb9uqq>  
APRS Frequency: 144.390 MHz Simplex  
SSTV Frequency: 146.460 MHz Simplex

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Questions regarding the SIG go to the SIG administrator: [wallou@tapr.org](mailto:wallou@tapr.org)

---

## 550. [aprssid] Re: HSP Support in APRSDos

From: David VanHorn <[dvanhorn@cedar.net](mailto:dvanhorn@cedar.net)>  
Date: Tue, 19 Dec 2000 14:23:08 -0500  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <LYR842-125426-2000.12.19-13.37.45--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 02:09 PM 12/19/00 -0600, Zachary Michael wrote:  
>Hi Gang,  
>Does APRSDos have HSP support? I have look everywhere for it, but just  
>can't seem to find it. I am not registered, so I hope that does not  
>matter. Thanks ahead for any information.

I'm sure it does, but beware, HSPs can cause problems.

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

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Questions regarding the SIG go to the SIG administrator: [wallou@tapr.org](mailto:wallou@tapr.org)

---

## 551. [aprssid] Re: HSP Support in APRSDos

From: "Jeff Brenton" <[jeffb@espi.com](mailto:jeffb@espi.com)>  
Date: Tue, 19 Dec 2000 13:44:49 -0600  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <LYR842-125428-2000.12.19-13.56.57--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

APRS/DOS supports HSP... it STARTED HSP... B-)

But, it's a GPS option, which requires registration. It's in the Alt-S menu, and, when you turn it on, it will ask you for your GPS registration number.

Jeff Brenton  
President,  
Engineered Software Products, Inc  
<http://espi.com>  
Questionable web page: <http://dididahdahdidit.com>

Liberalism grants you the freedom to advocate any idea\*.  
\* Please see <http://www.dididahdahdidit.com/except.php> for a  
current list of exceptions

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---

## 552. [aprssid] Re: 1200 vs 9600 vs 56000

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Tue, 19 Dec 2000 14:54:12 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <LYR842-125429-2000.12.19-14.06.06--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Well, looks like we got a new data point on 9600 and it looks pretty good unless I'm missing something. I just got this months QST and it reports the ALINCO DR-135TP gets 5.9 E-4 at 12 dB SINAD and that is at 0.18 uv.

Looks like Jeff is close since these numbers are close to the Kenwoods 1200 baud figures.

Now I suppose it would be nice to get some real numbers on the Kenwood... My tests were informal on-air-count-packets type tests. And I needed an S unit or so to have a threshold with which to compare my calibrated sig gen.

But I did note that I had seen detected packets from the PACSATS when no S units were visible. But my sig gen was not calibrated that low.

Good data.

Thanks!

Bob

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---

### 553. [aprssig] Re: HSP Support in APRSDos

From: "Clayton H. Owen" <aa3jy@erols.com>  
Date: Tue, 19 Dec 2000 14:56:36 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125430-2000.12.19-14.09.21--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Jeff Brenton wrote:

>  
> APRS/DOS supports HSP... it STARTED HSP... B-)  
>  
> But, it's a GPS option, which requires registration. It's in the Alt-S  
> menu, and, when you turn it on, it will ask you for your GPS registration  
> number.  
>

APRS847 and later ver..has added GPS "trial" so that unregistered users can try it out...

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### 554. [aprssig] WARNING! Shameless Plug!! Don't Read This Or You Might Feel Spamm ed!!

From: "Horzepa, Stan" <Stan\_Horzepa@adc.com>  
Date: Tue, 19 Dec 2000 14:21:03 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125435-2000.12.19-14.32.58--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Your SIG administrator, yours truly, has started writing a new column for the ARRL Members-Only Web page. The column is called "Surfin'" and it discusses Amateur Radio-related Web pages. The first installment of the column appears now; future installments will discuss APRS-related Web pages.

Stan, WA1LOU

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### 555. [aprssig] Re: Kantronics question

From: "Michael J Huslig" <mhuslig@idir.net>  
Date: Tue, 19 Dec 2000 15:09:46 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125448-2000.12.19-15.16.02--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The building was for sale. Kantronics is leasing space there.  
Mike Huslig WB0NYK

-----  
> From: Rich; NØRUL <n0rul@kscable.com>  
> To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
> Subject: [aprssig] Kantronics question  
> Date: Friday, December 15, 2000 10:44 PM

```

>
> I thought APRS was helping Kantronics sales grow.
>
> Last month I noticed Kantronics has a large "FOR SALE" sign at their
> location in Lawrence, Kansas.
>
> Does anybody know WHAT IS HAPPENING WITH KANTRONICS??
> Did their company get purchased, are they relocating, or are they
> suffering the result of $12 tinytraks?
>
> Richard Roberts, NØRUL
> Wichita, Kansas
> mailto:n0rul@kscable.com
>
> ----- Original Message -----
> From: "Mark Fellhauer" <sparkfel@primenet.com>
> To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
> Subject: [aprssig] Re: KPC3+ question
> ....
> > Kantronics DOES NOT offer anything of substance on their web site
> > for free. But then again, only Kenwood and Alinco seem to be the
> > only amateur radio vendors who are willing to do that. Paccomm has
> > an online command reference, but if you have a Paccomm TNC you
> > have different problems
> > altogether.
> >
> > You can purchase a new manual from Kantronics. That'll be $497.00 plus
> > shipping. And we'll send you the wrong manual three times...
> ....
>
> ---
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```

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## 556. [aprssig] Re: HSP Support in APRSDos

```

From: Bob Bruninga <bruninga@usna.edu>
Date: Tue, 19 Dec 2000 17:08:05 -0500 (EST)
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Message-ID: <LYR842-125455-2000.12.19-16.19.58--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

On Tue, 19 Dec 2000, Zachary Michael wrote:

```

> Does APRSDos have HSP support? I have look everywhere for it, but just
> can't seem to find it. I am not registered, so I hope that does not
> matter. Thanks ahead for any information.

```

Yes, APRSDos invented it. Go to alt-SETUP-GPS-MODES-HSP to toggle it on or off. New versions since about 846 I think will let you run with HSP enabled for 20 minutes or so without being registered...

Read all about it in your APRS\README\GPS.TXT file...

bob

```

---
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```

---

## 557. [aprssig] Re: Speaking of HSP - HSP cable for Sale (was: HSP Support in APRSDos)

```

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Tue, 19 Dec 2000 16:25:59 -0600
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR842-125457-2000.12.19-16.42.34--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```

Speaking of HSP, I have a Kantronics-made HSP cable which I will sell for \$23 including shipping (CONUS). Current price from Kantronics is \$33 not including tax or shipping.

73,

Mark  
KC8BX5

---

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## 558. [aprssig] Re: GPS-III+ Close-Outs

From: Doug Woodruff <w4law@alltel.net>  
Date: Tue, 19 Dec 2000 18:47:31 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125470-2000.12.19-17.58.53--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Never give up, guys!

For two days I called and called trying to find one of the elusive close-out units but to no avail. In desperation I called my local Office Depot one more time and pleaded with the man to check other stores' inventories. He came back with a listing of one unit at a store about 20 miles away. When I called them they said "no way" but I again pleaded with them to check their inventory.....

Short version....

Display model/very dusty/no manual/no accessories/no box/WORKS GREAT --  
\$49.88 + tax!!!

Doug, W4LAW

---

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## 559. [aprssig] Re: GPS-III+ Close-Outs

From: "Stephen M. King" <frastephen@home.com>  
Date: Tue, 19 Dec 2000 18:57:33 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125471-2000.12.19-18.10.30--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

FWIW, the local Office Depot also has Garmin Etrex units on clearance for \$68 (1/2 price).

Our local store still had two so they must be more readily available than the GPS III's.

Peace and 73,  
Stephen  
KD3OG

---

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## 560. [aprssig] Re: N8YLS in OH- BUG in WX program..

From: Ernie Howard <ag8y@voyager.net>  
Date: Tue, 19 Dec 2000 20:33:07 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125484-2000.12.19-19.32.36--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi Dave,

N8YLS is being operated by N8NQF, his dad. (n8nqf@arrl.net). He is



running a U2K to a PIC-E. The software is off of the WWW.TAPR.ORG site, the WX software for the Pic-E by K4HG.

Definitely a 'HUGE' bug in the software. Guess it's not ready for prime time yet. The conversion process in the software doesn't always seem to work for the sustained wind. Everything else works. It would also be nice if the software was updated to vary the timing. Unfortunately I am not a Pic expert. Maybe someone will take on the challenge. It's a good use for the Pic-E.

I guess meanwhile we can hope that those 277 mph wind speeds down blow away Middletown.

73 Ernie W8EH, one of Middletown, Ohio's 3 weather stations.....

David VanHorn wrote:

```
>
> Does anyone know N8YLS in ohio?
> His WX station was reporting 272MPH winds.
> I do hope that's a bug :)
>
> --
> Where's dave? http://www.findu.com/cgi-bin/find.cgi?kc6ete-9
>
> ---
```

--

-----  
Without the second amendment, there would be no first.

Ernie Howard, Jr    W8EH    Middletown, Ohio  
Internet E-mail: w8eh@arrrl.net  
Web Page: http://my.ohio.voyager.net/~w8eh  
-----

---

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---

## 561. [aprssig] Re: N8YLS in OH- BUG in WX program..

From: David VanHorn <dvanhorn@cedar.net>  
Date: Tue, 19 Dec 2000 21:19:12 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125490-2000.12.19-20.34.14--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

```
>Definitely a 'HUGE' bug in the software. Guess it's not ready for prime
>time yet. The conversion process in the software doesn't always seem to
>work for the sustained wind. Everything else works. It would also be
>nice if the software was updated to vary the timing. Unfortunately I
>am not a Pic expert. Maybe someone will take on the challenge. It's
>a good use for the Pic-E.
```

I'd be willing to look at it, if someone has the source.

--

Where's dave? http://www.findu.com/cgi-bin/find.cgi?kc6ete-9

---

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## 562. [aprssig] My Phoenix

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Tue, 19 Dec 2000 19:42:02 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125491-2000.12.19-20.54.57--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I appreciate all the replies on programming my Phoenix. A fellow from one of the email lists has offered to send me a PROM, programmed.

Thanks all,  
Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

---

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---

## 563. [aprssig] Re: 9600 Baud

From: Doug McFadden <[kc7imr@orednet.org](mailto:kc7imr@orednet.org)>  
Date: Tue, 19 Dec 2000 18:45:41 -0800 (PST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-125494-2000.12.19-21.13.12--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Mon, 18 Dec 2000 WA8LMF1@aol.com wrote:

>  
> Not to mention that this multipath issue is threatening to sink the entire  
> Digital/HDTV rollout.  
>  
> It's so intolerant of multipath-induced bit-errors at the megabits-per-second  
> transmission rate that in about 1/3rd of randomly chosen locations in  
> strong-signal urban and suburban areas you get no picture at all off-the-air!  
> The HDTV on-air tests were done in the flat lands of suburban Maryland;  
> apparently no one thought about western terrain or the urban concrete canyons  
> of New York or Chicago!  
>

Think about it, the only REAL reason for HDTV is to stop cable theft and to eliminate "over the air" broadcasters (aka competition). Multipath-induced bit-errors won't be a problem when it's delivered on the wire or fiber but the \$50, \$70 or \$100 a month might be.

Wouldn't it be nice if we could put the i-net traffic in a few verticle sync intervals at the local station, freeing up some local rf. Or how about SCA from a local FM station? With the end of C-Band tvro insight, there should be lots of cheap transponder time available soon, what could you do with a nation wide feed? Lots of possibilities for aprs and other modes as well.

Doug/KC7IMR

Trying to establish voice contact ... please yell into your keyboard.  
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---

## 564. [aprssig] Re: GPS-III+ Close-Outs

From: BordingK@aol.com  
Date: Tue, 19 Dec 2000 22:22:00 EST  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-125497-2000.12.19-21.33.54--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Now just go to [Garmin.com](http://Garmin.com) and download the manual!

W5KNB  
Ken

---

## 565. [aprssig] Re: GPS-III+ Close-Outs or eMap Deluxe

From: Dave Hargus <dhargus@pacbell.net>  
Date: Tue, 19 Dec 2000 19:40:36 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125500-2000.12.19-21.58.42--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I couldn't find a GPSIII+ on Saturday at any of the Office Depots in the Bay Area. On their web site, Office Depot has the eMap Deluxe for \$99.88 (search on eMap on OD web site). I called my local store and asked if they had any eMaps, the manager said no, but he just got in a GPSIII+ that I could have for \$99.88. I went down and got it!

Anyway, if you cannot find the GPSIII+, you should be able to order the eMap for \$100 by ordering it off their web site (their normal list price is \$381).

Dave  
K6NFL

---

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## 566. [aprssig] Re: GPS-III+ Close-Outs or eMap Deluxe

From: "Rob Wittner" <rmw@rwa-inc.com>  
Date: Wed, 20 Dec 2000 01:50:32 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125523-2000.12.20-01.01.20--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

: Anyway, if you cannot find the GPSIII+, you should be able to order the  
: eMap for \$100 by ordering it off their web site (their normal  
: list price is \$381).  
:  
: Dave  
: K6NFL

<Sigh> Not anymore. Just went there and everything's out of stock.

If anyone managed to get an eMap Deluxe that they'd like to unload... let's talk. :-)

73

-Rob  
KZ5RW

---

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## 567. [aprssig] Re: Website additions (APRS)

From: James Smith <k9apr@tawg.org>  
Date: Wed, 20 Dec 2000 03:36:41 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125530-2000.12.20-02.48.36--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Well if you haven't visited the website in awhile now is the time. I have added a folder for UI-VIEW and Filters programs these used to be kept in the Mac/WinAPRS and Other APRS/ DIGI Shareware folders. Look below for the address.

All links are verified and working.

Also some other news: The server for the domain, mailing list has been upgraded. You will notice faster loading time on the page now. About 3 sec loading time on mine.

Well I hope the weather isn't getting anyone down. Merry Christmas & Happy New Year!!!

--

73, James, K9APR

Chairman \ Coordinator  
Tri-State APRS Working Group  
<http://www.tawg.org>  
Own a APRS Website? Join the APRS Webring <http://www.tawg.org/join.htm>

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---

## 568. [aprssig] Re: Website additions (APRS)

From: David VanHorn <[dvanhorn@cedar.net](mailto:dvanhorn@cedar.net)>  
Date: Wed, 20 Dec 2000 09:29:24 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-125542-2000.12.20-08.44.06--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 03:36 AM 12/20/00 -0500, James Smith wrote:  
>Well if you haven't visited the website in awhile now is the time. I  
>have added a folder for UI-VIEW and Filters programs these used to be  
>kept in the Mac/WinAPRS and Other APRS/ DIGI Shareware folders. Look  
>below for the address.  
>  
>All links are verified and working.

Hmm...

Tried to download the Waprs247 update, and the document got a green check,  
but I never got any file..  
It's not clear to me how that's supposed to work. Do I click what I want,  
double-click, right-click, or what?

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

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---

## 569. [aprssig] APRS presentation

From: "Horzepa, Stan" <[Stan\\_Horzepa@adc.com](mailto:Stan_Horzepa@adc.com)>  
Date: Wed, 20 Dec 2000 09:10:44 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-125549-2000.12.20-09.22.38--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I am relaying this from [kd5ckp@yahoo.com](mailto:kd5ckp@yahoo.com), so please reply to [kd5ckp@yahoo.com](mailto:kd5ckp@yahoo.com), not me:

Does anyone have a "canned" presentation on APRS to work from. I have been  
asked to do one for the SAR & EMA and I am by no means a Guru of the art.  
I am open to suggestions.

---

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## 570. [aprssig] Re: mobile aprs

From: Ralph Milnes <[milnes1@rcn.com](mailto:milnes1@rcn.com)>  
Date: Wed, 20 Dec 2000 10:19:05 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-125550-2000.12.20-09.31.04--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On the HT list, Bob and Alan were discussing the frequency of APRS beacons  
by fixed and mobile stations .. in response to Carl's suggestion about  
advertising a voice contact frequency.

I've taken the liberty of duplicating that discussion on the main APRS  
list, since it's not a "new technology" subject and I think many APRS users  
would benefit or could add to the discussion. I think it's a good one. So,  
I would suggest that further discussion take place on the main APRS list,

instead of the HT list. I hope that's OK, Alan, Carl and Bob. Your original comments are quoted (mostly) below.

To summarize, Alan was lamenting that fixed stations only beacon every 60 minutes or so, and that means mobiles traveling through were apt to miss a fixed station's beacon. Bob was sympathizing, saying that beacons less than every 10 minutes ran counter to the idea of APRS being a real time tactical network (Alan and Bob, correct me if that's a poor summary).

A few thoughts to add:

1. In the US, most fixed stations are not "live" -- there's no one at the controls -- so I'm not sure why a mobile would be so keen to know the fixed station's position. That's not saying there aren't good reasons, but I'd be curious to hear why a mobile station would want to know about a passive (as opposed to active) station.
2. Perhaps a (partial) solution for Alan is to make use of the ?APRS? inquiry feature in the APRS protocol to trigger reports from other APRS stations. (I'm not sure if the D7 and D700's have this built in -- either to send it or to respond to it.) Of course, not all APRS stations will automatically respond to this inquiry, for example, any stations running without compliant software or with running without a computer and just a TNC that doesn't respond to ?APRS?.
3. But as Bob suggested, if you are an "active" fixed station, then perhaps it would be a very good idea to change your beaconing rate. If your station normally beacons every 60 minutes while you're NOT at the controls, change it to every 10 minutes when you are at the controls.
4. Come to think of it -- that might be a good software feature -- a toggle for active vs passive mode. In passive mode your station would automatically:
  - \* reduce the frequency of beaconing rates from every 10 minutes to every 30 or 60
  - \* change to a passive status message, i.e. "unmanned station" vs an active message something like "Active and listening on xxx.xxx Mhz"
  - \* put APRS messaging into auto-answer mode "Sorry no one here right now. I'll respond shortly"
  - \* other?

And toggling to active mode would reverse those and initiate an immediate POSIT and STATUS beacon.

4. I also like Carl's suggestion of advertising your voice frequency. I and many others put that in our status messages.

5. Of course that leads to the next problem -- a convenient voice frequency for mobile APRS users. Usually it's less convenient for the mobile station to switch to the fixed station's frequency. It's probably better for the fixed station to QSY to the mobile's voice frequency. But what frequency would be a good mobile frequency. In the US, it seems like that might be 146.52 (or 446.000), the common "calling frequency" -- even though that's simplex. Conversely -- to get the advantage of the local area repeaters -- a mobile might have to do a lot of button pushing to QSY. I guess I don't know what the best answer to all that is. Any suggestions?

73,

Ralph, KC2RLM

Bob responded to Alan who was commenting on Carl's:

- > > I think we need to encourage APRS to be used with phone - the live bit
- > makes
- > > for a much more useful system. I try and monitor 433.5 or local 70cm
- > fm rpt-
- > > it was su20 I was called on :)
- > Whilst I agree completely with Carl, there is a major problem with
- > the current APRS protocol, as seen in the UK.
- >
- > Fixed stations are advised to repeat about once per hour and mobile
- > stations, depending on their speed, about once per minute.

That is not a problem with the protocol, but with its usage. APRS was designed for a net cycle time of about 10 minutes for local ops. APRSdos defaults to a 10 minute rate when operated locally. As the user extends his QRM to other areas with additional HOPS, his time is increased by 10 minutes for each hop to a maximum of 30 minutes.

Similarly we recommend all wide area digipeaters to ID locally once every 10 minutes and less often the more hops in the path. These are to solve the problem to which you refer. Locals should see EVERYONE ON THE AIR IN THEIR LOCAL AREA at least once every 10 minutes. We fought to get this into the spec. In the USA there was a move to change things to 60 minuets but as you see, it totally defeats the purpose of a real-time tactical comms system...

>

> If you are a fixed station that has been on for over an hour, you will  
> know who is on. But a mobile passing through, will have passed most  
> fixed stations before their signal is heard.

Exactly. The standard is 10 minuets for direct or ONE hop packets, and less further out. It is a tradeoff. But 1 hour completely defeats the purpose of APRS...

> We need an update to the protocol to overcome this problem. I've  
> suggested this before in the UK ui-view eGroups list, but been  
> ridiculed.

Yes, those that do not see the big picture or only think of APRS as routine 24 hour a day ham radio will fight to keep your beacon rates low. Those that actually USE APRS for real-time events or situations must have it higher. Good luck, you will never please everyone...

de WB4APR@amsat.org, Bob

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## 571. [aprssig] Re: Second try --> Any updates for WinAPRS in the works?

From: Keith Sproul <ksproul@rci.rutgers.edu>  
Date: Wed, 20 Dec 2000 10:45:09 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: aprssig@tapr.org  
Message-ID: <LYR842-125555-2000.12.20-10.02.48--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

We are back to working on WinAPRS/MacAPRS/X-APRS.. Just have been too busy at work.. And we still haven't invented a 48 hour day...

Keith

>Hi again,

>

>I have not read anything regarding "WinAPRS" in quite a while. Are there any  
>updates in the works? Or is "WinAPRS" slowly fading into oblivion? I was  
>spoiled by the frequent and regular updates ;-)

>

>Bruno, KF6QDP/VE2EQ  
>Oceanside, California

>

>

>---

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|                                       |                         |                |
|---------------------------------------|-------------------------|----------------|
| Keith Sproul                          | ksproul@rci.rutgers.edu | WU2Z           |
| Student Housing                       | Network Coordinator     | 732 445-3695 W |
| Rutgers University Computing Services |                         | 732 821-4828 H |

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## 572. [aprssig] Re: [htaprs] Re: mobile aprs

From: Bob Bruninga <bruninga@usna.edu>  
Date: Wed, 20 Dec 2000 10:54:06 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@tapr.org>  
Message-ID: <LYR842-125558-2000.12.20-10.07.22--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Tue, 19 Dec 2000, Ralph Milnes wrote:

> To summarize, Alan was lamenting that fixed stations only beacon every 60  
> minutes or so, and that means mobiles traveling through were apt to miss a  
> fixed station's beacon. Bob was sympathizing, saying that beacons less than  
> every 10 minutes ran counter to the idea of APRS being a real time tactical  
> network (Alan and Bob, correct me if that's a poor summary).

Close. I say that for someone transmitting DIRECT, then the rate should be once every 10 minutes so that no one is ever more than 10 minutes away from seeing everyone he can hit direct. This is called the "Net Cycle Time". But as people add more hops to their paths, then they need to reduce the rate. We chose 30 minutes as that bottom line for hops of 3 or more.

As a Tactical Real-Time communications system, you must know who is on the air \*now\*. Thus APRSdos has always automatically defaulted to 10 minutes for local hops so that new users or people needing APRS in an emergency will be seen even though they don't have time to read the gigabytes of readme files. But to avoid QRM, APRSdos has also always dropped its rate as soon as the user adds hops to his outgoing path. It adds 10 minutes to his reporting period for each hop that the user adds... to a maximum of 30 minutes.

Some of the other authors have also added this variable default rate to be sure that their users "appear" on the map at an emergency more often than once every hour. Some other versions in the USA (over my objections) had defaulted to 60 minutes and assumed that all users would remember to adjust their rates to match the situation in progress.

Most DIGIPEATER recommendations do the same. The DIGIS are supposed to transmit a local POSITION report once every 10 minutes, then one via ONE HOP every 20, then via 2 hops once every 30 minutes and so on. Local rates may vary from this, but you get the idea.

The CONCEPT is that NO ONE hears that many people direct, so it does not hurt to transmit once every 10 minutes a DIRECT packet just to inform mobiles or visitors that might be in range of your presence.

---

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## 573. [aprssig] Re: mobile aprs

From: "Cap Pennell" <cap@cruzio.com>  
Date: Wed, 20 Dec 2000 08:23:29 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125559-2000.12.20-10.35.22--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> -----Original Message-----  
> From: Ralph Milnes  
> Sent: Wednesday, December 20, 2000 7:19 AM  
<snip> .. in response to Carl's suggestion about  
> advertising a voice contact frequency.  
<snip>

Another good idea is to put an email address in there, either in the Status or Posit. Beware that packets can easily be made TOO long, and often are. APRSdos only displays position comment text of 43 characters or less. Anything longer is not visible. Status packets can be slightly longer (55 characters with the timestamp). Longer lines don't help network congestion either because they take longer to transmit.

Here's an example of longest position comment line length:

Robert in Stockton/bob@arrrl.net/146.520 now

73, Cap KE6AFE

---

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## 574. [aprssig] GPS question

From: "Keith Kotch" <kotch@mpinet.net>  
Date: Wed, 20 Dec 2000 12:04:47 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125565-2000.12.20-11.15.20--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

What's the "limitation" with using Garmin Streetpilot with APRS?

Keith  
Keith Kotch  
Ambient Design Consultants 407-673-1901  
I'm a Ham too, Amateur Radio Call: KF4BXT

---

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## 575. [aprssig] Re: GPS question

From: Ray Vaughan <ray@rayvaughan.com>  
Date: Wed, 20 Dec 2000 12:38:12 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125569-2000.12.20-11.50.08--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 12:04 PM 12/20/00 -0500, you wrote:  
>What's the "limitation" with using Garmin Streetpilot with APRS?

Unlike the 3+, other APRS stations don't show up on the screen. In Garmin's eyes, saying your hardware is NEMA compatible is something you can pick and choose from as it's convenient. It outputs NEMA, but has not interest in inbound NEMA.

There's a slight hope they'll add this in a future firmware release. I hope all APRS Street Pilot users have complained to Garmin about this.

---

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## 576. [aprssig] Re: Second try --> Any updates for WinAPRS in the works?

From: Ken Brown <W2KB@compuserve.com>  
Date: Wed, 20 Dec 2000 12:54:01 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125573-2000.12.20-12.06.27--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>> And we still haven't invented a 48 hour day... <<

Keith,

Just add your and Mark's days together. . . <g>

Best of Season's Greetings!

73,

---Ken W2KB@ARRL.net

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## 577. [aprssig] Re: GPS question

From: "Rich Beckwith" <Rich@dps.state.mo.us>  
Date: Wed, 20 Dec 2000 12:50:18 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125578-2000.12.20-13.02.13--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

You will not be able to input waypoints from traneivers lke the D700. This capability allows you to track other APRS stations on your GPS. Many of us have called Garmin about this issue.

My answer was to buy a Garmin GPSMap 162 instead. Works great, but it is a larger unit (larger display) and is marine service oriented. According to Garmin, the GPSMap 162 is very similiar to the GPSIII+ in terms of features and capabilites. It uses the same map source cd's and works beautifully with my D700. I really like the large screen size and the ability to configure the screens almost any way I like. It also has a full screen mode that displays just the map, and a 3D view that is handy for navigating to a particular waypoint. The Man-Over-Board (MOB) feature is nice for immediately setting a waypoint and navigating back to the waypoint. You can also set the icons for specific waypoints like digis and home stations, and only delete waypoints with a specific icon. This is handy for deleting all of your mobile stations, but leave your fixed stations untouched.

No internal batteries, and you will have to decide whether you want the internal or external antenna version. I have the external antenna version and mouted the marine antenna on the roof rack of my Jeep Cherokee.

Hope this helps.

Rich Beckwith - Wn0x

>>> "Keith Kotch" <kotch@mpinet.net> 12/20/00 11:04AM >>>  
What's the "limitation" with using Garmin Streetpilot with APRS?

Keith  
Keith Kotch  
Ambient Design Consultants 407-673-1901  
I'm a Ham too, Amateur Radio Call: KF4BXT

---

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## 578. [aprssig] RE: Did I Miss Something

From: "Pitts, Charles" <cpitts04@sprintspectrum.com>  
Date: Wed, 20 Dec 2000 13:52:49 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125584-2000.12.20-14.04.54--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I do see numbers in the digest version. This is a new feature I do believe

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## 579. [aprssig] Re: N8YLS in OH- BUG in WX program..

From: Ernie Howard <ag8y@voyager.net>  
Date: Wed, 20 Dec 2000 17:18:53 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125611-2000.12.20-16.17.38--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi Rich,

Ron, N8NQF, the fellow who is running this station needs to run his U2K in complete record mode, since he is using he 'weather picture' in his office. If he uses the packet mode, the weather picture will miss a bunch of stuff. I looked over the pic code a bit and also looked at the

standard WX packet requirements in the ARPS spec. Looks like you could just parse out the complete record mode, collect the data needed to reassemble the packet into the 'packet output' mode. Thus do away with the conversions that may be the trouble with the wind speed spiking so high sometimes. I assume that most of the aprs programs handle the raw packet output mode.

I would be interested in getting your code when done, or even try it out for you. The way you are going with it should be easily modified to convert the complete record mode.

I hope you will post it here or email me when it is available.

73 Ernie W8EH

Rich Clemens wrote:

```
>
> I have a slightly revised version of the software but need to do some more
> work. I am planning on ditching the full report version and just parse the
> information from the packet version of the output.
> --
> Rich Clemens
> clemens@wwvc.edu
>
> > From: Ernie Howard <ag8y@voyager.net>
> >
> > Hi Dave,
> >
> > N8YLS is being operated by N8NQF, his dad. (n8nqf@arrl.net). He is
> > running a U2K to a PIC-E. The software is off of the WWW.TAPR.ORG site,
> > the WX software for the Pic-E by K4HG.
> >
> > Definitely a 'HUGE' bug in the software. Guess it's not ready for prime
> > time yet. The conversion process in the software doesn't always seem to
> > work for the sustained wind. Everything else works. It would also be
> > nice if the software was updated to vary the timing. Unfortunately I
> > am not a Pic expert. Maybe someone will take on the challenge. It's
> > a good use for the Pic-E.
```

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## 580. [aprssig] Re: Second try --> Any updates for WinAPRS in the works?

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Wed, 20 Dec 2000 17:34:20 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-125634-2000.12.20-18.48.16--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 10:45 AM 12/20/00 -0500, Keith Sproul blasted the following out into the ether:

```
>We are back to working on WinAPRS/MacAPRS/X-APRS.. Just have been too
>busy at work.. And we still haven't invented a 48 hour day...
```

When you do, you can retire!

Hmm -- not sure I like the thought of not having you guys writing software for us. Forget the 48 hour day! <G>

Merry Christmas!  
Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

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---

## 581. [aprssig] Mobile Satellite Packet Operations made Easy

From: Bob Bruninga <bruninga@usna.edu>  
Date: Wed, 20 Dec 2000 20:24:26 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125645-2000.12.20-19.36.48--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Satellite Tracking Made Easy. You can work SUNSAT during about a 3 hour window Mornings and evenings. Just visualize its orbit as a north-south train track in the sky that your QTH passes under about 0350 and 1640 daily local sun time because of the rotation of the earth to the East..\*

When the earth brings you within range, you could see 2 or 3 passes depending on where SUNSAT is in its orbit. If you see an early LOW pass to the East, then 100 minutes later, the next pass could be very high overhead followed by the last one low to the West. Or you could get the first one relatively high to the East and then there is only time for one more 100 minutes later relatively high to your West. This graphic attempts to help you visualize the geometry as if you were facing North.

```

                                * <= orbit
MORN          0500          0400 *          0300          0200
EVES          1800          1700 *          1600          1500

ELEV .....90.....
          .....45.....45.....
ANGLE.....20.....20.....
          10.....10.....

THREE   o <=====100 min=====> o <=====100 min=====> o   PASSES
TWO     o <=====100 min=====> o   PASSES
```

==> Earth's Rotation to the East ==>

If your mobile uses a 19" whip that has about 8 dBi gain above 30 deg on the 436.250 MHz downlink, then you will expect to hear SUNSAT once or maybe twice between about 1550 to 1730. But since the same antenna gives you a good 2m uplink above about 10 deg, then you should be able to report your STATUS/POSIT maybe 2 or three times between about 1500 to 1800

Uplink at 1200 baud on 145.900 or at 9600 baud on 145.825 and check FINDU.COM to see if you made it in. SUNSAT dumps all POSITS/STATUS heard 4 times a day to FINDU.COM

### NOTES:

- 1) This graphic only makes sense if you use a FIXED SPACED FONT.
- 2) TIMES are shown right-to-left due to the rotation of the earth
- 3) This graphic is drawn for about 40 deg Lat. The offset between MORN and EVES will be less, closer to the Equator
- 4) The times are correct for about the middle of your time zone.  
Your offset from the center of your zone can change this +/- 30 mins
- 5) This pattern is moving earlier about 20 minutes a month.

UO-22 is similar. It's crossings are centered about 0730 and 1830 daily.

de WB4APR@amsat.org, Bob

See APRS SATELLITES <http://web.usna.navy.mil/~bruninga/astars.html>

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## 582. [aprssig] Best TM-D700 Web pages

From: BordingK@aol.com  
Date: Wed, 20 Dec 2000 22:25:38 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125653-2000.12.20-21.38.16--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

A friend has a new Kenwood Mobile and I wanted to give him URLs to the best pages on hookup and operation of the TM-D700. Any suggestions.

DE W5KNB  
Ken

---

### 583. [aprssig] Re: HSP Support in APRSDos

From: Skip Allison <sallison@megsinet.net>  
Date: Wed, 20 Dec 2000 21:46:08 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125655-2000.12.20-21.59.08--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Zachary Michael wrote:

>  
> Hi Gang,  
> Does APRSDos have HSP support? I have look everywhere for it, but just  
> can't seem to find it. I am not registered, so I hope that does not  
> matter. Thanks ahead for any information.  
>

What are you trying to do that you need HSP? There are generally ways around it (with limitations). What kind of TNC are you using? I tried HSP with my KPC3. The operation was very awkward and I gave up on it and went with a different configuration.

Skip  
K9SA

---  
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### 584. [aprssig] Re: Second try --> Any updates for WinAPRS in the works?

From: Skip Allison <sallison@megsinet.net>  
Date: Wed, 20 Dec 2000 22:04:39 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125659-2000.12.20-22.17.39--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I'd just like to throw in one request - definable DF line lengths or at least 25 miles regardless of zoom level. - - Just in case Santa honors your request for the 48 hour day ;)

Skip  
K9SA

Keith Sproul wrote:

>  
> We are back to working on WinAPRS/MacAPRS/X-APRS.. Just have been  
> too busy at work.. And we still haven't invented a 48 hour day...  
>

---  
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---

### 585. [aprssig] Re: mobile aprs]

From: Skip Allison <sallison@megsinet.net>  
Date: Wed, 20 Dec 2000 22:26:31 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125660-2000.12.20-22.39.35--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bill Vodall wrote:

>One very nifty feature of the KPC3 is the capability to do  
>four different broadcasts each with their own path and timing.  
>It would be nice if base station software had the same feature.

>For example:

>1. Beacon path "", every 10 minutes, "Hi you hear wa7nwp-17 direct"  
>2. Path "relay", every 20 minutes, ...standard Posit packet  
>3. path "relay,wide3-3" every 30 minutes "Hello world, wa7nwp@aprs."

>(beacons 2 and 3 could alternate.. Timings are just ballpark.)

>4th beacon could be used for something else..

If you're using a KPC3 or any of the newer Kantronics TNCs at home you can still do it the same way you're doing it in the car.

Skip  
K9SA

---

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## 586. [aprssig] Power? Don't need it!

From: Jeff Reinhardt <jreinh@ix.netcom.com>  
Date: Wed, 20 Dec 2000 21:19:33 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125663-2000.12.20-23.32.08--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Last week I drove from L.A. through much of California's central valley to Sonoma County and back to L.A. using just a 5-watt Alinco DJ-190 HT as a transceiver. I'm pleased to say that I tracked through most, if not all of the trip and track lines showed up on my home computer in L.A. County. This demonstrates (again) that not much power is needed in an area with a "mature" network of digis. Path from the mobile was WIDE2-2 and it can be surmised that path allowed tracking coverage through most of the state.

For those of you bothered by your APRS transmitter desensing or swamping the receiver of your 2-meter voice radio, try reducing the power. You may be amazed at the results. Remember, the "capture effect" does not hold up in packet communications. A collision between a 50 watt signal and a 1 watt signal still renders both packets useless. If more of us move to lower power, we may reduce collisions in areas we don't need to reach. When operating the APRS tracker, I never hear packet bursts on my 2m mobile, unless I am tuned to 144.39. The antennas are separated only by the width of the trunk lid.  
Just a thought FWIW.  
Jeff Reinhardt AA6JR

---

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---

## 587. [aprssig] Re: mobile aprs]

From: Bill Vodall <wa7nwp@yahoo.com>  
Date: Wed, 20 Dec 2000 22:31:51 -0800 (PST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125681-2000.12.21-00.43.46--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> If you're using a KPC3 or any of the newer Kantronics TNCs at home  
> you can still do it the same way you're doing it in the car.  
>  
> Skip  
> K9SA

True only if you're running TNC's native mode..

I traded the KPC3+ off for a KPC9612 which, along with all the other home TNC's, are running KISS mode to Linux boxes. I have a Y splitter I use to sometimes feed the local APRS traffic to both the Linux AX25 port and APRSPLUS at the same time. (Monthly nudge/request to Bob (APRSDOS) and Mike (PocketSAT) to support KISS.)

The car now uses the Pic-E which will do smart broadcasts one of these months when I get a chance to play with the software.

Speaking of firmware, the KPC3+ is a super little box. I can think of lots of applications for them and would probably buy a couple more, even at the current price, IF source code was available.

If we had source code, we could easily expand KISS to do neat stuff like bring in GPS strings and A/D telemetry. We could have smart

nodes. Gosh - we'd sure BUY a lot of those neat little boxes!

Bill, WA7NWP

---

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---

## 588. [aprssig] One more Linux/Kiss thought

From: Bill Vodall <[wa7nwp@yahoo.com](mailto:wa7nwp@yahoo.com)>  
Date: Wed, 20 Dec 2000 22:39:15 -0800 (PST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-125686-2000.12.21-00.51.08--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>  
> I traded the KPC3+ off for a KPC9612 which, along with all  
> the other home TNC's, are running KISS mode to Linux boxes.

One more comment... One of the many advantages to the Kiss/Linux setup, is I can have an UNLIMITED number of STATUS/POSIT/BULLETIN messages easily generated. They can be the output of any program, or web query. It's limited only by your imagination and just how much traffic you want to add to the network.

Bill - WA7NWP

---

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---

## 589. [aprssig] APRS on Steroids!

From: Scott <[who@netarizona.net](mailto:who@netarizona.net)>  
Date: 21 Dec 2000 03:15:28 -0800  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-125703-2000.12.21-05.27.27--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

APRS on Steroids!

This coming Nascar season starting with Daytona, the sports broadcasters will include a technology that has been previously seen in hockey and football. In hockey the games are broadcast with the puck in play highlighted and with a delayed trail. In football you see it is when you see a virtual line marking the 1st down marker.

So what does this have to do with APRS? The cars will be carrying Differential GPS and telemetry devices that will be updated via radio at 600 times per minute per vehicle! All of this will be merged with other data to highlight the cars on the track.

And you thought that updates of 1 time per minute would overload your local APRS network?

Read more here:

[http://www.findarticles.com/m0BCA/40\\_130/65704388/p1/article.jhtml](http://www.findarticles.com/m0BCA/40_130/65704388/p1/article.jhtml)

<http://www.sportvision.com/archive.asp?id=76>

<http://www.sportvision.com/products/race.asp>

Also check out the article in the Jan 2001 Popular Science

Scott  
KF4NDQ

Signup for your free USWEST.mail Email account <http://www.uswestmail.net>

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Questions regarding the SIG go to the SIG administrator: [wallou@tapr.org](mailto:wallou@tapr.org)

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## 590. [aprssig] Any OH stations active on 10m APRS?

From: Roger Barker <[roger@peaksys.co.uk](mailto:roger@peaksys.co.uk)>  
Date: Thu, 21 Dec 2000 11:24:01 +0000  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-125705-2000.12.21-05.37.02--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-125705-2000.12.21-05.37.02--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Every day now I hear the OH2RBJ mailbox on 29.250 for several hours. If any OH stations could try APRS on that frequency, I think they will find very good propagation to the UK and other parts of western Europe. With the SV2BBO digi also being heard for long periods, there is the opportunity for much of Europe to be contactable on 10m.

(Note to hams outside IARU Region 1 - The Region 1 10m band plan has an NBFM packet allocation at 29.200 to 29.300.)

--

Roger Barker, G4IDE - [roger@peaksys.co.uk](mailto:roger@peaksys.co.uk)  
For UI-View go to - <http://www.packetradio.org.uk>  
For WinPack go to - <http://www.peaksys.co.uk>

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---

## 591. [aprssig] EMAIL

From: "Clayton H. Owen" <[aa3jy@erols.com](mailto:aa3jy@erols.com)>  
Date: Thu, 21 Dec 2000 09:44:10 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-125712-2000.12.21-08.57.04--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-125712-2000.12.21-08.57.04--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

What is a "550 aa3jy@winlink.org...we do not relay AA3JY@unknown.net"

---

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## 592. [aprssig] Re: Second try --> Any updates for WinAPRS in the works?

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Thu, 21 Dec 2000 09:48:36 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-125713-2000.12.21-09.01.05--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-125713-2000.12.21-09.01.05--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

On Wed, 20 Dec 2000, Skip Allison wrote:

> I'd just like to throw in one request - definable DF line lengths or at  
> least 25 miles regardless of zoom level. - - Just in case Santa honors  
> your request for the 48 hour day ;)   
> K9SA

The way APRSdos does it is by map scale. If you are on a 16 mile range, then the length of the DF line is transmitted as 16 miles. If you are on a 4 mile range scale, then the length of the line is 4 miles, etc. If you are on the 1024 mile scale, then it is 1024 miles long and you must be doing HF DFing...

The assumption is that if you are entering a DF line, then the current map view you are using at that instant probably represents the approximate range of your DF equipment.... and therefore the length of the line.

Also, then it really makes a FOXhunt replay look neat! As the DFER gets closer to the FOX, then the lines get shorter as he homes in... and bingo! he's got him. Without this variable DF line length, a FOX hunt replay just looks like a whole screen full of random lines

The DF line spec includes a variable for length...

de WB4APR, Bob

---

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---

### 593. [aprssig] RE: Did I Miss Something

From: Guy Story <[kc5goi@tapr.org](mailto:kc5goi@tapr.org)>  
Date: Thu, 21 Dec 2000 10:08:34 -0600 (CST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-125722-2000.12.21-10.20.30--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

That may be added when it goes into archive as the day goes by. I am not in digest mode so I see them as they post.

73

GuyOn Wed, 20 Dec 2000,  
Pitts, Charles wrote:

> Date: Wed, 20 Dec 2000 13:52:49 -0600  
> From: "Pitts, Charles" <[cpitts04@sprintspectrum.com](mailto:cpitts04@sprintspectrum.com)>  
> To: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
> Subject: [aprssig] RE: Did I Miss Something  
>  
> I do see numbers in the digest version. This is a new feature I do believe  
>  
> ---  
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>  
>

73,

Guy Story  
KC5G0I  
[kc5goi@tapr.org](mailto:kc5goi@tapr.org)  
<http://www.kc5goi.net>

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---

### 594. [aprssig] Re: Second try --> Any updates for WinAPRS in the works?

From: David VanHorn <[dvanhorn@cedar.net](mailto:dvanhorn@cedar.net)>  
Date: Thu, 21 Dec 2000 08:53:10 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-125731-2000.12.21-11.37.52--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 10:04 PM 12/20/00 -0600, Skip Allison wrote:  
>I'd just like to throw in one request - definable DF line lengths or at  
>least 25 miles regardless of zoom level. - - Just in case Santa honors  
>your request for the 48 hour day ;)

Maybe "long enough to cross" is the right answer?

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

---

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### 595. [aprssig] Jan 01 QST Article





Hi sig.  
I'm looking for how to configure my kpc3+ to put +12v at the db25.  
Thanks.  
Alex, PT2VHF

---

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## 599. [aprssig] Re: Jan 01 QST Article

From: David VanHorn <dvanhorn@cedar.net>  
Date: Thu, 21 Dec 2000 16:54:19 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125743-2000.12.21-16.08.53--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 03:43 PM 12/21/00 -0500, Kd4emi@aol.com wrote:  
>Question about findu.  
>Instead of switching to a full page could it be possible to set up so it  
>displays in a 4x6 size window on my home page with live updates ?

Right click on the image, and make it a desktop item.  
I have three NWS products, and a webcam of popocatepetl displaying that way.  
Just set the update rate, and you're there.

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

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## 600. [aprssig] Question about the Kenwood TM261A

From: "Keith Maton" <feek@bigfoot.com>  
Date: Thu, 21 Dec 2000 21:58:33 -0000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125744-2000.12.21-16.10.48--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I've got a Kenwood TM-261A on the way (being imported from the Far-East for me by a friend).

Has anyone used one of these radios for APRS? If so, how well does it perform for data, and can anyone tell me if it has a data connector or do I have to throw packet up the mic socket?

73  
Keith

--

Keith Maton, G6NHU  
feek@bigfoot.com  
Visit <http://www.mb7uiv.co.uk>, home of the first licenced APRS gateway in the UK.  
- Careful with that Axe

---

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## 601. [aprssig] Re: KPC3+ Jumpers

From: "Clayton H. Owen" <aa3jy@erols.com>  
Date: Thu, 21 Dec 2000 17:02:52 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125746-2000.12.21-16.16.30--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Alex Pinheiro Machado Rodrigues wrote:  
>  
> Hi sig.

> I'm looking for how to configure my kpc3+ to put +12v at the db25.  
> Thanks.  
> Alex, PT2VHF  
>  
Page 245 of the KPC-3 Plus "Users Guide"

---

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---

## 602. [aprssig] RE: Question about the Kenwood TM261A

From: "Robert Donnell" <kd7nm@pugetsound.net>  
Date: Thu, 21 Dec 2000 14:34:31 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125748-2000.12.21-16.46.29--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi Keith, and all

I and a buddy both run these as our tracker radios in our vehicles. There is not a separate packet connection, you do have to use the RJ-45 mike cable. However it has unsquelched receive audio, that's not controlled by the receiver volume or squelch controls. From my observations, you will find the radio to be an effective performer for APRS, but you will have to switch connections if you want to use the radio for voice operations.

This may only be applicable in the US (I have no idea what the supply of 50MM steel ammunition storage boxes is like outside the U.S.) but the TM-261 is a virtually perfect fit across the end of a 50MM ammo can, such as can be purchased from [www.cheaperthandirt.com](http://www.cheaperthandirt.com). I stood the radio on-end, with the heat sink butted against the bottom of the can, located and drilled mounting screw holes to match the radio's tapped mobile bracket screw holes, and bolted it in place. All the controls are just low enough to clear the hinged cover of the box, allowing it to be closed. By creating right-angle extenders for the DB-25 and DB-9 connectors on the rear of a KPC3+, I was able to mount it right next to the radio. Without the right-angle adapters, there is not enough room for safely connecting wires to the Sub-D connectors and covering them with any standard shells. I made the right-angle adapters by purchasing 1 each of:

- DB-25 male connector designed to right-angle mount on a PC board
- DB-9 male connector designed to right-angle mount on a PC board
- DB-25 female connector with solder cups
- DB-9 female connector with solder cups

I inserted the pins of the PC-mount male connector into the corresponding solder cups on the female connector and soldered all pins. One thing I didn't do on the original, that I'd recommend, is putting the mounting screws in place before soldering. Takes a lot less effort!

73, and hope everyone is enjoying the Winter Solstice.

Bob, KD7NM

-----Original Message-----

From: bounce-aprssig-17768@lists.tapr.org  
[mailto:bounce-aprssig-17768@lists.tapr.org] On Behalf Of Keith Maton  
Sent: Thursday, December 21, 2000 1:59 PM  
To: TAPR APRS Special Interest Group  
Subject: [aprssig] Question about the Kenwood TM261A

I've got a Kenwood TM-261A on the way (being imported from the Far-East for me by a friend).

Has anyone used one of these radios for APRS? If so, how well does it perform for data, and can anyone tell me if it has a data connector or do I have to throw packet up the mic socket?

---

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---

## 603. [aprssig] RE: Question about the Kenwood TM261A

From: "Paul E. Knupke, Jr." <pk@ij.net>  
Date: Thu, 21 Dec 2000 20:23:43 -0500

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125771-2000.12.21-19.36.41--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I've been running a TM-261A as the radio at my digi site in Clearwater, FL.  
It has been working flawlessly for the 13 months sitting in a rack on the  
10th floor of a building that is shared by my UHF repeater.

It does not have a data output that I remember. It does have speaker audio  
on the mic plug though. I run it in open squelch, using a KPC3+ at the TNC  
with software DCD.

No complaints from this end. I am running at 50 watts, with a cooling fan  
blowing across the heatsink.

I have a DCI bandpass cavity in front of it to eliminate junk outside of the  
amateur bands.

73  
Paul  
N4PK

> -----Original Message-----  
> From: bounce-aprssi-19964@lists.tapr.org  
> [mailto:bounce-aprssi-19964@lists.tapr.org]On Behalf Of Keith Maton  
> Sent: Thursday, December 21, 2000 4:59 PM  
> To: TAPR APRS Special Interest Group  
> Subject: [aprssi] Question about the Kenwood TM261A  
>  
>  
> I've got a Kenwood TM-261A on the way (being imported from the  
> Far-East for  
> me by a friend).  
>  
> Has anyone used one of these radios for APRS? If so, how well does it  
> perform for data, and can anyone tell me if it has a data  
> connector or do I  
> have to throw packet up the mic socket?  
>  
> 73  
> Keith  
> --  
> Keith Maton, G6NHU  
> feek@bigfoot.com  
> Visit <http://www.mb7uiv.co.uk>, home of the first licenced APRS gateway in  
> the UK.  
> - Careful with that Axe  
>  
>  
>  
> ---  
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---

## 604. [aprssi] Re: GPS question

From: "Wes Johnston" <wes@johnston.net>  
Date: Thu, 21 Dec 2000 22:12:47 -0500  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-125780-2000.12.21-21.24.16--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Street pilot won't accept the waypoints from the d700's. Check the garmin  
162... huge display supposed to accept waypoints....cheaper than the street  
pilot.

Wes

-----Original Message-----  
From: Keith Kotch <kotch@mpinet.net>  
To: TAPR APRS Special Interest Group <aprssi@lists.tapr.org>  
Date: Wednesday, December 20, 2000 12:05  
Subject: [aprssi] GPS question

>What's the "limitation" with using Garmin Streetpilot with APRS?  
>  
>Keith  
>Keith Kotch  
>Ambient Design Consultants 407-673-1901  
>I'm a Ham too, Amateur Radio Call: KF4BXT  
>  
>  
>---  
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---

## 605. [aprssig] findu news from K4HG

From: Stan Horzepa <stanzepa@mail2.nai.net>  
Date: Thu, 21 Dec 2000 22:15:34 +0000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125781-2000.12.21-21.27.27--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Stan's nice article about findu has caused many people to investigate the track page shown in QST. As I mentioned in my unofficial release of these, they are not ready for prime-time. When more than one request is pending at a time, the server starts thrashing on the requests, and the result is a noticeable slowdown. Three times today people have noted the page not loading fast, and kept resending the page request, with the result that dozens of these requests queued up and brought the server to a standstill. I've had to manually retart the MySQL server to restore service.

Until I am able to set up a new table that can handle these track requests more efficiently, the track pages are offline. Sorry for the inconvenience. No other pages are affected.

Steve K4HG

---  
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---

## 606. [aprssig] Re: findu news from K4HG

From: David VanHorn <dvanhorn@cedar.net>  
Date: Thu, 21 Dec 2000 22:38:14 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125791-2000.12.21-21.52.49--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>Until I am able to set up a new table that can handle these track  
>requests more efficiently, the track pages are offline. Sorry for the  
>inconvenience. No other pages are affected.

I'd be interested to know what the problem is, exactly.  
I do PHP and MySQL too.

--  
Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

---  
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---

## 607. [aprssig] Re: GPS question

From: "Geo. & Jeanne Brooks" <gbrooks@ncia.com>  
Date: Thu, 21 Dec 2000 19:47:00 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125793-2000.12.21-21.59.36--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

My 162 accepts waypoints from D700A.

Geo. N7HPE

> Street pilot won't accept the waypoints from the d700's. Check the garmin  
> 162... huge display supposed to accept waypoints....cheaper than the  
street

---

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---

## 608. [aprssi] RE: TM261A - Thanks folks

From: "Keith Maton" <feek@bigfoot.com>  
Date: Fri, 22 Dec 2000 06:18:03 -0000  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-125811-2000.12.22-00.29.59--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Thanks for all the info folks, the idea is that it's going to be the main  
radio here at the igate so it looks as though it was a good choice (and  
being sourced in Singapore means that it's nice and cheap!)

73

Keith

--

Keith Maton, G6NHU  
feek@bigfoot.com

Visit <http://www.mb7uiv.co.uk>, home of the first licenced APRS gateway in  
the UK.

- Careful with that Axe

---

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---

## 609. [aprssi] Re: HSP Support in APRSDos

From: "Pitts, Charles" <cpitts04@sprintspectrum.com>  
Date: Fri, 22 Dec 2000 00:46:31 -0600  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-125818-2000.12.22-00.58.31--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Zachary Michael wrote:

>

> Hi Gang,

> Does APRSDos have HSP support? I have look everywhere for it, but just

> can't seem to find it. I am not registered, so I hope that does not

> matter. Thanks ahead for any information.

>

APRSDos does have HSP support, I have used it successfully in a fully  
portable operation using a KPC3, Palm 3XE, Garmin GPS 12XL, and a YAESU  
2400. You can only use it if you have registered APRSDos and have paid the  
fat man(sorry Bob, couldn't resist B-)> ) once you go into alt-s then save  
to enter you reg numbers for GPS as well as the program. You should be able  
to do alt-s again from the main screen then click G for GPS then look for  
HSP, (Bob you may correct me if I'm wrong, it's been a while). Good luck  
with it, and happy Mobiling APRS style. On a more personal note the Kenwood  
radios simplify things but may be an extra investment that may be unfeasible  
or a good item to add to a CHRISTmas list. hihi.

Charles Kevin Pitts  
KE4RCO  
ke4rco@earthlink.net

There are some people who live in a dream world,  
and there are some who face reality;  
and then there are those who turn one into the other.

---

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---

## 610. [aprssig] Re: KPC3+ Jumpers

From: "Ev Tupis (W2EV)" <propnet@greeceny.com>  
Date: Fri, 22 Dec 2000 07:35:34 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125822-2000.12.22-06.51.09--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Actually, the jumper configuration is on page 265 of my manual and no where does it mention the ability to put +12v on the DB25. Even the index under the word "Power" points to an area that omits this information.

Has this feature been eliminated in the "plus" version of the TNC or am I simply overlooking it in the manual?

Ev, W2EV

"Clayton H. Owen" wrote:

>  
> Alex Pinheiro Machado Rodrigues wrote:  
> >  
> > Hi sig.  
> > I'm looking for how to configure my kpc3+ to put +12v at the db25.  
> > Thanks.  
> > Alex, PT2VHF  
> >  
> Page 245 of the KPC-3 Plus "Users Guide"  
>  
> ---  
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## 611. [aprssig] Re: KPC3+ Jumpers

From: "Clayton H. Owen" <aa3jy@erols.com>  
Date: Fri, 22 Dec 2000 07:55:37 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125824-2000.12.22-07.08.26--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Ev Tupis (W2EV) wrote:

>  
> Actually, the jumper configuration is on page 265 of my  
> manual and no where does it mention the ability to put +12v  
> on the DB25. Even the index under the word "Power" points  
> to an area that omits this information.  
>  
> Has this feature been eliminated in the "plus" version of  
> the TNC or am I simply overlooking it in the manual?  
>  
> Ev, W2EV  
>  
Kantronics KPC-3 Plus "User's Guide" copyright 1997 says on page 245 under 'Optional Wiring'  
"It is possible to re-configure the DB-25 connector to allow some additional functions through this connector..If desired, you may apply DC power to the KPC-3 Plus from Pin 13 of the DB-25 connector. To enable this,connect J6 center pin and pin 2, J7 center pin and pin 1."

---

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---

## 612. [aprssig] Re: EMAIL

From: "Clayton H. Owen" <aa3jy@erols.com>  
Date: Fri, 22 Dec 2000 08:26:28 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125825-2000.12.22-07.39.20--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Keith Sproul wrote:

>  
> They changed the spam enforcement system on the email server at work..  
> This caused relaying of email message to not work. It is all fixed now.  
> Thanks for bringing this to my attention. It was only down for less than  
> a day due to your prompt action.. Thanks.. (went down sometime on the  
> 20th)  
>  
> Keith  
>  
> On Thu, 21 Dec 2000, Clayton H. Owen wrote:  
>  
> > Clayton H. Owen wrote:  
> > >  
> > > What is a "550 aa3jy@winlink.org...we do not relay AA3JY@unknown.net".

---

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## 613. [aprssig] Alinco DR-135 in standalone?

From: David Locke <locked@intplsrv.net>  
Date: Fri, 22 Dec 2000 08:21:31 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125841-2000.12.22-08.37.13--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Is anyone getting the Alinco DR-135 in to operate in APRS in a standalone manner? We, here in SW Oklahoma are convinced that it is not possible. We've had a couple of suggestions that didn't work out.

Has anyone heard that there was a revision to the early models? We are "Befuddled".

73,  
Dave Locke  
KC5SII

-----Original Message-----

From: Jeff Reinhardt [SMTP:jreinh@ix.netcom.com]  
Sent: Friday, December 15, 2000 8:26 AM  
To: TAPR APRS Special Interest Group  
Cc: TAPR APRS Special Interest Group  
Subject: [aprssig] Re: 9600bps radios - DR-135

I understand it will be reviewed in the February 2000 QST, BER included.  
Jeff AA6JR  
=====

Bob Bruninga wrote:

>  
> On Thu, 14 Dec 2000, Jeff King wrote:  
>  
> > Your right, I am wrong. The Kenwood is the best 9600bps radio on the  
> > market that does 196byte frames and has 50+ms turnaround with a default  
> > TXD of 500ms....  
>  
> We still dont know about the ALINCO DR-135. It is the second entry into  
> the integrated radio/TNC market. I'm dying to see some performance data  
> on its built in 1200 and 9600 baud TNC. Hope someone can do some  
> measurements between a pair of them soon..  
>  
> de WB4APR, Bob



>  
> ---  
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---

## 614. [aprssig] Re: [Re: KPC3+ Jumpers]

From: Bill Tetens <bftet@netscape.net>  
Date: 22 Dec 00 06:52:20 PST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125847-2000.12.22-09.04.17--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I haven't looked to find the text reference to putting power on the DB 25 but you can accomplish by opening the case and placing J7 into the #1 position and J6 to the #2 position. This will apply the 12 volts to the Rs 232 port pin 13. You can also apply the voltate to pin 7 of the DB 9. Use the supplied schematic and parts location sheets to accomplish this.

Bill KB4ZM

Holler if you need any more help.

"Ev Tupis (W2EV)" <propnet@greeceny.com> wrote:  
Actually, the jumper configuration is on page 265 of my manual and no where does it mention the ability to put +12v on the DB25. Even the index under the word "Power" points to an area that omits this information.

Has this feature been eliminated in the "plus" version of the TNC or am I simply overlooking it in the manual?

Ev, W2EV

"Clayton H. Owen" wrote:  
>  
> Alex Pinheiro Machado Rodrigues wrote:  
> >  
> > Hi sig.  
> > I'm looking for how to configure my kpc3+ to put +12v at the db25.  
> > Thanks.  
> > Alex, PT2VHF  
> >  
> Page 245 of the KPC-3 Plus "Users Guide"  
>  
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---

## 615. [aprssig] Re: Alinco DR-135 in standalone?

From: Jeff Reinhardt <jreinh@ix.netcom.com>  
Date: Fri, 22 Dec 2000 06:55:51 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125848-2000.12.22-09.08.06--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

David:

What do you mean by "standalone?" As a tracker or as a digipeater?

Jeff Reinhardt AA6JR

=====

David Locke wrote:

>

> Is anyone getting the Alinco DR-135 in to operate in APRS in a standalone  
> manner?

---

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## 616. [aprssig] Re: Alinco DR-135 in standalone?

From: K3for@aol.com  
Date: Fri, 22 Dec 2000 10:55:30 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125855-2000.12.22-10.07.43--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Here's Alinco's manual on the subject, for those interested in reading up.

<http://www.alinco.com/pdf.files/Ej41u-e.pdf>

There are a number of commands that need to be set:

(in lieu of UNPROTO, BEACON, BTEXT)

LOCATION (10 sec time increments for xmit)

LPATH (outgoing path)

LTEXT

GBAUD (GPS baud rate)

LTMON/LTMHEAD (optional)

GPS data strings interpreted are GPGGA, GPVTG, GPZDA, GPRMC, PNTS. Similar to other systems, you can operate fixed without a GPS by putting static position info in the LTX buffer.

Sections 4.5 and 5.0 have the info. I don't have an Alinco so I can't try it, but hope this helps.

73's,  
Skip/K3FOR

---

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---

## 617. [aprssig] DR-135

From: "wes johnston" <wes@johnston.net>  
Date: Fri, 22 Dec 2000 10:59:31 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125857-2000.12.22-10.19.05--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Can anyone tell me if the Dr135 has the same 195byte lockup problem as the kenwood? It is my understanding that the kenwood d700 locks up.

Wes

---

## 618. [aprssig] Re: DR-135

From: Jeff Reinhardt <jreinh@ix.netcom.com>  
Date: Fri, 22 Dec 2000 08:24:20 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125860-2000.12.22-10.36.40--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Wes:

Have not heard anything to that effect. One big difference between the radios is that the DR-135 does not display received packets.

Jeff Reinhardt AA6JR

=====

> wes johnston wrote:

>

> Can anyone tell me if the Dr135 has the same 195byte lockup problem as  
> the kenwood? It is my understanding that the kenwood d700 locks up.

>

> Wes

---

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---

## 619. [aprssig] Re: [Re: KPC3+ Jumpers]

From: [rbost@itexas.net](mailto:rbost@itexas.net) (Roy Bost)

Date: Fri, 22 Dec 2000 10:29:39 -0600

To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>

Message-ID: <LYR842-125861-2000.12.22-10.41.43--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

If I remember correctly, on the KPC-3 the DC power comes in\out pin 25 on the DB-25 connector and on the KPC-3+ the DC power comes in\out pin 13 on the DB-25. The DC in\out on the DB-9 seems to be the same - pin 7.

---

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Questions regarding the SIG go to the SIG administrator: [wallou@tapr.org](mailto:wallou@tapr.org)

---

## 620. [aprssig] Re: KPC3+ Jumpers]

From: "Alex Pinheiro Machado Rodrigues" <[alex@bsbnet.com](mailto:alex@bsbnet.com)>

Date: Fri, 22 Dec 2000 14:53:16 -0200

To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>

Message-ID: <LYR842-125862-2000.12.22-11.05.35--lyris.aprssig#tapr.org@lists.tapr.org>

Rendered body type: text/plain

Thanks Roy.

Can you scan this page to me? I can't find my manual...

Thanks!

Alex, PT2VHF

BRAZIL

----- Original Message -----

From: "Roy Bost" <[rbost@itexas.net](mailto:rbost@itexas.net)>

To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>

Sent: Friday, December 22, 2000 2:29 PM

Subject: [aprssig] Re: [Re: KPC3+ Jumpers]

If I remember correctly, on the KPC-3 the DC power comes in\out pin 25 on the DB-25 connector and on the KPC-3+ the DC power comes in\out pin 13 on the DB-25. The DC in\out on the DB-9 seems to be the same - pin 7.

---

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Questions regarding the SIG go to the SIG administrator: [wallou@tapr.org](mailto:wallou@tapr.org)

---

## 621. [aprssig] Re: Alinco DR-135 in standalone?

From: Bob Bruninga <bruninga@usna.edu>  
Date: Fri, 22 Dec 2000 12:10:26 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125863-2000.12.22-11.22.24--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I also have an ALINCO on order now for some testing and so I will gain some experience too... de WB4APR, Bob

On Fri, 22 Dec 2000 K3for@aol.com wrote:

> Here's Alinco's manual on the subject, for those interested in reading up.  
>  
> <http://www.alinco.com/pdf.files/Ej41u-e.pdf>  
>  
> There are a number of commands that need to be set:  
> (in lieu of UNPROTO, BEACON, BTEXT)  
> LOCATION (10 sec time increments for xmit)  
> LPATH (outgoing path)  
> LTEXT  
> GBAUD (GPS baud rate)  
> LTMON/LTMHEAD (optional)  
>  
> GPS data strings interpreted are GPGGA, GPVTG, GPZDA, GPRMC, PNTS. Similar  
> to other systems, you can operate fixed without a GPS by putting static  
> position info in the LTXT buffer.  
>  
> Sections 4.5 and 5.0 have the info. I don't have an Alinco so I can't try  
> it, but hope this helps.  
>  
> 73's,  
> Skip/K3FOR  
>  
> ---  
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>  
>

de WB4APR@amsat.org, Bob

See my APRS LIVE pages <http://web.usna.navy.mil/~bruninga/aprs.html>  
See APRS SATELLITES <http://web.usna.navy.mil/~bruninga/astars.html>  
See MIM/Mic-E/Mic-Lite <http://www.tapr.org/tapr/html/mic-e.html>

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---

## 622. [aprssig] Re: DR-135

From: Bob Bruninga <bruninga@usna.edu>  
Date: Fri, 22 Dec 2000 12:16:22 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125864-2000.12.22-11.28.20--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Fri, 22 Dec 2000, wes johnston wrote:

> Can anyone tell me if the Dr135 has the same 195byte lockup problem as  
> the kenwood? It is my understanding that the kenwood d700 locks up.

The 195 byte problem is an APRS PARSING error, not related to the packet side of things. Thus the Kenwoods work just fine with full size 256 byte packets in PACKET mode, just NOT in APRS stand-alone-mode (where there is no such thing as a legal/valid APRS packet longer than about 63 data bytes anyway)

I believe the ALINCO uses the identical packet chip set. But it doesn't have any internal APRS parsing (no front panel displays or keyboard) so it will not have this problem.

de WB4APR, Bob

---

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---

## 623. [aprssig] GPS for D700A

From: "Bill Buckles" <[bbuckles@as.net](mailto:bbuckles@as.net)>  
Date: Fri, 22 Dec 2000 11:20:48  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-125865-2000.12.22-11.32.46--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-125865-2000.12.22-11.32.46--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

I am new to APRS.

I have just installed KENWOOD TM-D700A in my truck and would like suggestions as to best GPS unit to buy for APRS use.  
Any reading references would be much appreciated.

Thanks,  
Bill Buckles, KG6AOC

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---

## 624. [aprssig] Re: GPS question

From: [tarnerich@in-situ.com](mailto:tarnerich@in-situ.com) (Tony Arnerich)  
Date: Fri, 22 Dec 2000 10:26:21 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-125866-2000.12.22-11.40.33--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-125866-2000.12.22-11.40.33--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Ray Vaughan <[ray@rayvaughan.com](mailto:ray@rayvaughan.com)>

>Unlike the 3+, other APRS stations don't show up on the screen.  
>In Garmin's eyes, saying your hardware is >NEMA compatible  
>is something you can pick and choose from as it's convenient.  
>It outputs NEMA, but has not >interest in inbound NEMA.

There is no requirement in the NMEA spec that all devices must support all the possible sentences associated with their device family. Look up the on-line documentation of anything Garmin sells - they list all the supported sentences for each model. It's up to the prospective buyer to do the research before one makes a huge purchase.

Since the SP's NMEA outputs are in compliance, I see no place where Garmin lied to you. I do see a question you might have failed to ask, or a false assumption you might have made.

>There's a slight hope they'll add this in a future firmware release.

One can always hope that they will respond to constructive requests because the track record on some models is impressive. But I really doubt that it will get supported in that model. Look at the revision history on the eMap to see how much they do with a product that has enough room to add the requested features. Consult the archives of [sci.geo.satellite-nav](http://sci.geo.satellite-nav) (where it was settled a long time ago) for Garmin's rationale about not being able to include WPL support in the SP. Maybe if they come out with a new hardware platform for it, there might be a chance. (There's precedent - the 12XL went through at least 3 hardware platforms, each one having a clearly defined limit of the feature sets. Mine will never have a city database or get 24 hour battery life like the current production 12XL's have. So it goes.)

>I hope all APRS Street Pilot users have complained to Garmin about this.

Well, they've been hearing this for a l--o--n--g time now. Seeing how quick they are to upgrade the other models, there sure seems to be something holding them back on the SP.

73,  
Tony KD7TA

---

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---

## 625. [aprssid] KISS mode w/KPC-3 in WinAPRS

From: tarnerich@in-situ.com (Tony Arnerich)  
Date: Fri, 22 Dec 2000 11:01:40 -0700  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-125868-2000.12.22-12.15.50--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I'm trying to use a W2FS KISS TNC with WinAPRS 2.4.7, running under Win95. Since that wasn't working (except for receive) I decided to try using my KPC-3/5.0 as a reality check. That's not working either, beyond one or two transmissions (queries, posits, or messages). It receives OK as long as I don't TX. Then it jams.

When I open up the terminal window I see the KPC-3 has gone through a hard reset, and it's sending out the "press \* to set baud rate" message at all the different baud rates.

I had set INTERFACE KISS on the KPC-3;  
I had done a power cycle on the KPC to activate the new INTERFACE setting;  
I had activated KISS mode in WinAPRS;  
I had a matching ABAUD rate between the KPC and WinAPRS;  
After the above, I did an "open VHF TNC" in WinAPRS;  
I then started trying to TX and things jammed.

Did I leave anything out?

On another PC I've successfully run a KAM in KISS mode with WinAPRS, and it performs flawlessly for weeks at a time.

73,  
Tony KD7TA

---

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---

## 626. [aprssid] Re: [Re: KPC3+ Jumpers]

From: Bill Vodall <wa7nwp@yahoo.com>  
Date: Fri, 22 Dec 2000 10:06:19 -0800 (PST)  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-125869-2000.12.22-12.18.50--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

--- Roy Bost <rbost@itexas.net> wrote:  
> If I remember correctly, on the KPC-3 the DC power comes in\out pin  
> 25 on  
> the DB-25 connector and on the KPC-3+ the DC power comes in\out pin  
> 13 on  
> the DB-25. The DC in\out on the DB-9 seems to be the same - pin 7.

This non-standardization is exactly why I'll put up with having a separate cable for power. I'm not going to risk frying my hardware (even if the firmware source code isn't available) by putting accidentally connecting the wrong cable.

There must be one of the multitudes of variants on Murphey's law that relates to connecting a cable where it'll do the most damage.

Bill - WA7NWP

---

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## 627. [aprssid] RE: GPS for D700A

From: "Ciemon G0TRT" <g0trtlists@btinternet.com>  
Date: Fri, 22 Dec 2000 18:29:23 -0000

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125871-2000.12.22-12.41.26--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I've just ordered an iGPS from  
<http://www.pharosgps.com/Product/product.html>

If you're not bothered about a display it's perfect.

73....Ciemon Dunville G0TRT Sysop MB7UPG IGate  
ICQ - 6263612  
homepage - [www.aprsuk.net](http://www.aprsuk.net)  
Where is Ciemon's home station?  
<http://www.findu.com/cgi-bin/find.cgi?mb7upg>

> -----Original Message-----  
> From: bounce-aprssig-21065@lists.tapr.org  
> [mailto:bounce-aprssig-21065@lists.tapr.org]On Behalf Of Bill Buckles  
> Sent: 22 December 2000 11:21  
> To: TAPR APRS Special Interest Group  
> Subject: [aprssig] GPS for D700A  
>  
>  
> I am new to APRS.  
> I have just installed KENWOOD TM-D700A in my truck and would like  
> suggestions as to best GPS unit to buy for APRS use.  
> Any reading references would be much appreciated.  
>  
> Thanks,  
> Bill Buckles, KG6AOC  
>  
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## 628. [aprssig] Mobile Packet Satellites

From: Bob Bruninga <bruninga@usna.edu>  
Date: Fri, 22 Dec 2000 14:46:41 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125877-2000.12.22-13.59.22--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

For your holiday travels:

This is probably a better chart to show satellite access times for  
satellites you can work from your mobile or Handheld packet station.  
Most are 9600 baud, but SUNSAT does have a 1200 baud uplink. As you  
can see, you are rarely more than say 45 minutes away from being  
able to communicate digitally from your HT or mobile from anywhere  
on the planet... The only question, is anyone listening? Times are  
local sun time for the center of your timezone.

|      | MORNING           |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   | EVENING |   |   |   |   |   |         |   |   |         |         |  |  |  |  |  |  |
|------|-------------------|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|---|---|---|---|---|---------|---|---|---------|---------|--|--|--|--|--|--|
| SAT  | UPLINK            | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1       | 1 | 2 | 2 | 2 | 2 | DWNLINK |   |   |         |         |  |  |  |  |  |  |
|      | 9600 bd           | 0   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5       | 6 | 7 | 8 | 9 | 0 | 1       | 2 | 3 | 9600 bd |         |  |  |  |  |  |  |
| 0038 | 437.100           | *** |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |   |   |   |   |   |         |   |   | ***     | 437.100 |  |  |  |  |  |  |
| U022 | 145.900           |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |   |   |   |   |   |         |   |   |         | 435.120 |  |  |  |  |  |  |
| S035 | 145.825           |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |   |   |   |   |   |         |   |   |         | 436.250 |  |  |  |  |  |  |
|      | 145.900 (1200 bd) |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |   |   |   |   |   |         |   |   |         |         |  |  |  |  |  |  |

\*\*\* In the windows indicated you will get about two 5 min passes a  
day when the satellite will be above about 20 degrees and solid  
to a mobile or HT. Any low passes before or after are probably  
too low to be worked mobile.

Although I have received packets on my HT INSIDE the car with the  
rubber duck, that was a perfect overhead pass. Normally you need  
about a 3 element UHF handheld beam on your HT to decode the bird  
lower on the horizon. The 2 meter Uplink on an OMNI whip is usually  
quite fine.

Even if you dont see yourself on the downlink, you can at least see yourself on FINDU.COM if you go via S035. We need some other full time ground stations to feed packets from the other birds.

For mor info on this mode of operating, see:

<http://web.usna.navy.mil/~bruninga/astars.html>

NOTE: OPAL appears to have reset itself since I have not heard it in the last two days... If you hear it, lemme know.

de WB4APR@amsat.org, Bob

See my APRS LIVE pages    <http://web.usna.navy.mil/~bruninga/aprs.html>  
See APRS SATELLITES       <http://web.usna.navy.mil/~bruninga/astars.html>  
See MIM/Mic-E/Mic-Lite    <http://www.tapr.org/tapr/html/mic-e.html>

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## 629. [aprssig] Magellan GPS?

From: "kc0fkk" <[kc0fkk@arrl.net](mailto:kc0fkk@arrl.net)>  
Date: Fri, 22 Dec 2000 13:03:05 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-125879-2000.12.22-14.09.24--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-125879-2000.12.22-14.09.24--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Can anyone tell me if the Magellan Pioneer 300 or Magellan 12017 GPS Receivers will work for a GPS receiver in conjunction with APRS? A local store in my area is having a closeout sale on these GPS receivers, but I'd like to know if they are adaptable before purchasing. I am also using the APRS+SA program.  
Thanks in Advance... 73's    Rob...

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---

## 630. [aprssig] DR-135 won't fire off still!

From: David Locke <[locked@intplsrv.net](mailto:locked@intplsrv.net)>  
Date: Fri, 22 Dec 2000 13:53:46 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-125880-2000.12.22-14.09.26--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-125880-2000.12.22-14.09.26--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

From: Town Dale R WG-12 97 LG/LGMCA [SMTP:Dale.Town@altus.af.mil]  
Sent: Friday, December 22, 2000 11:45 AM  
To: 'locked@intplsrv.net'  
Subject: RE: [aprssig] Alinco DR-135 in standalone? Tried this done that?

Here's my problem.

I set all the setting as indicated below. It doesn't work. As the author of the below listed settings will agree (I think), the radio will not transmit its position unless data from the GPS (Garmin GPS III) appears in the LTEXT buffer. In my case this data does indeed appear in said buffer as long as the GPSTEXT is set to \$PNTS, and the radio transmits the position data at specified intervals as advertised. However, the moment I set the GPSTEXT to \$GPRMC or any of the other GPSTEXT strings, the LTEXT buffer refuses to accept position data from the GPS. Empty buffer equals no transmit.

Before you ask, yes the CTEXT buffer is clear and I've tried more than one type of GPS receiver.

Thots????

Dale Town (N5VX)  
[town@bigfoot.com](mailto:town@bigfoot.com)

-----Original Message-----

From: David Locke [<mailto:locked@intplsrv.net>]



Sent: Friday, December 22, 2000 9:38 AM  
To: Dale Town (E-mail)  
Subject: FW: [aprssig] Alinco DR-135 in standalone? Tried this done that?

-----Original Message-----

From: Horzepa, Stan [SMTP:Stan\_Horzepa@adc.com]  
Sent: Friday, December 22, 2000 9:14 AM  
To: 'locked@intplsrv.net'  
Subject: RE: [aprssig] Alinco DR-135 in standalone?

Hello Dave,

After invoking the RESET command, here are the only parameters you need to set to use the DR-135 as a tracker:

AUTOLF OFF  
ECHO OFF  
FLOW OFF  
GBAUD 4800 (match this setting to your GPS's data output rate)  
GPSTEXT \$GPRMC  
LOCATION EVERY 6 (6 represents 60 seconds)  
LPATH GPSMV VIA <your digipeater path>  
LTMHEAD OFF  
MYCALL <your call sign and SSID>  
LTMON 10  
UNPROTO APRS VIA <your digipeater path>

That is what I used when I tested the rig as a tracker for my review of the radio for QST.

Good luck!

Stan, WA1LOU

---

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---

## 631. [aprssig] Re: DR-135

From: "Henk de Groot" <henk.de.groot@hetnet.nl>  
Date: Fri, 22 Dec 2000 20:52:03 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125893-2000.12.22-14.53.59--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> Can anyone tell me if the Dr135 has the same 195byte lockup  
> problem as the kenwood? It is my understanding that the  
> kenwood d700 locks up.

I have not heard of any D700 or D7 locking up because of this. The TH-D7x just stops decoding APRS packets and sending beacons (on some models) in APRS mode and I did not read anywhere that the D700 does this (or doesn't do this) also. The report posted here that the older TH-D7A locked up "like a drum" on this SIG was hearsay, the only confirmed data is that it also stops decoding packets. The unit can still be controlled (reponds to the keypad the normal way and can still transmit if you push the PTT).

Since the problem seems to be in the post processing of data and not in the TNC itself I would be surprised if the Dr135 behaved the same. In TNC Packet mode the Kenwoods do not have a problem with full-size packets.

Since the Dr135 uses the same TASC0 TNC (thats what I heard) it would be interesting to know if TASC0 fixed some bugs in the TNC now. The bugs I know are that the T2 (RESP) timer doesn't work and that the PERSIST parameter works the wrong way around (on 255 it should have the highest probability to send, but when set to 255 the TH-D7 doesn't transmit at all anymore. When set to 0 the probability to send should be 0, but the TH-D7 then transmits, it seems they reversed this parameter). It would be nice to know if the Dr135 inherited this behaviour due to using the same TNC or that it was fixed.

Kind regards,

Henk.

---

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---

### 632. [aprssig] Re: DR-135 won't fire off still!

From: K5QQ@aol.com  
Date: Fri, 22 Dec 2000 15:49:58 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125894-2000.12.22-15.02.07--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In a message dated 12/22/2000 1:05:19 PM Mountain Standard Time, locked@intplsrv.net writes:

> However, the moment I set the GPSTEXT to \$GPRMC or  
> any of the other GPSTEXT strings, the LTEXT buffer refuses to accept  
> position data from the GPS. Empty buffer equals no transmit.

This might be way off the mark as it's been awhile since I fiddled with a real old TNC I had but I seem to recall the command for it was GPRMC - without the '\$'. I understand how contrary this is to the KPC's etc and that's why I seem to remember it as I fiddled with that TNC forever to try and get it going.

Anyhow give it a shot as it won't hurt anything!!

Jim K5QQ

---

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---

### 633. [aprssig] Re: DR-135

From: Jeff King <jeff@aerodata.net>  
Date: Fri, 22 Dec 2000 16:02:20 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125901-2000.12.22-15.17.46--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Henk de Groot wrote:  
(on D7 internal TNC)

> Since the Dr135 uses the same TASC0 TNC (thats what I heard) it would be  
> interesting to know if TASC0 fixed some bugs in the TNC now.

I find it hard to believe that TASC0 made it. In the sense they have been making TNC's for some time, and there are so many oversights that should be second nature to any experienced TNC designer.

Who said TASC0 made it?

-Jeff

---

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### 634. [aprssig] Re: DR-135

From: John Hansen <john@hansen.net>  
Date: Fri, 22 Dec 2000 17:39:50 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125913-2000.12.22-16.51.40--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 04:02 PM 12/22/00 -0500, Jeff King wrote:

>Henk de Groot wrote:  
>(on D7 internal TNC)  
>  
> > Since the Dr135 uses the same TASC0 TNC (thats what I heard) it would be  
> > interesting to know if TASC0 fixed some bugs in the TNC now.  
>  
>I find it hard to believe that TASC0 made it. In the sense they  
>have been making TNC's for some time, and there are so many oversights  
>that should be second nature to any experienced TNC designer.  
>  
>Who said TASC0 made it?  
>  
>-Jeff

If I'm not mistaken, I believe my D700 signs on with a TASC0 copyright when  
you bring it up in packet mode.

John W2FS

---

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---

### 635. [aprssig] Re: DR-135

From: Jeff King <jeff@aerodata.net>  
Date: Fri, 22 Dec 2000 17:51:45 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125915-2000.12.22-17.07.14--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

John Hansen wrote:

>  
> At 04:02 PM 12/22/00 -0500, Jeff King wrote:  
>  
> >  
> >Who said TASC0 made it?  
> >  
> >-Jeff  
>  
> If I'm not mistaken, I believe my D700 signs on with a TASC0 copyright when  
> you bring it up in packet mode.

Hmmm..... I'd say that is fairly conclusive... ;-)

73

Jeff

---

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### 636. [aprssig] Re: EMAIL

From: Keith Sproul <ksproul@vger.rutgers.edu>  
Date: Fri, 22 Dec 2000 18:09:53 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: aprssig@lists.tapr.org  
Message-ID: <LYR842-125920-2000.12.22-17.23.04--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Rutgers has a STRONG anti spam policy. This is good. But something  
was changed on the server and I was not notified.. I had to change  
the configuration of the server. Now everything is back operational.

Thanks to Clayton for pointing it out quickly, due to that it wasn't

down very long.

I had thought I had it fixed last night, but it was only working for LOCAL mail, I talked to the person in charge of it today, and fixed it when I got home this evening.

Happy Holidays to all.

Keith Sproul, WU2Z

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---

### 637. [aprssig] RE: KISS mode w/KPC-3 in WinAPRS

From: [tarnerich@in-situ.com](mailto:tarnerich@in-situ.com) (Tony Arnerich)  
Date: Fri, 22 Dec 2000 16:39:53 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-125925-2000.12.22-17.54.06--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>Check your HT jumper in the KPC-3; if it's set to HT, but the interface  
>harness is wired for a non-HT radio, transmitting will reset the processor.

Thanks for the reply, but that wouldn't be it in this case. This KPC-3 works great with WinAPRS in INTFACE TERMINAL mode. I've never set the HT mode on the jumper with any of my rigs. I do use some HT's but my cables handle the physical interfacing responsibilities.

This seems to be a KISS-protocol issue. I'm thinking that something that WinAPRS sends is confusing the TNC. I feel I must be making a bad assumption about either the TNC really being in KISS mode, or WinAPRS really being there. I've checked the box that says use KISS mode. Is there another setting that also has to be changed? WinAPRS's critical controls are sometimes a little scattered around, therefore they're easily overlooked when making changes.

73,  
Tony KD7TA

---

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---

### 638. [aprssig] KPC-3 TNC File

From: "John L. Place" <[jplace@sc.rr.com](mailto:jplace@sc.rr.com)>  
Date: Fri, 22 Dec 2000 18:49:19 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: [CarolinaAPRS@egroups.com](mailto:CarolinaAPRS@egroups.com)  
Message-ID: <LYR842-125927-2000.12.22-18.01.38--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Am looking for a tncfile, with GPS support, for WinAprs.  
Anyone out there interested in submitting one please?  
[Attachment: [jplace.vcf](#); text/x-vcard; 148 bytes]

---

### 639. [aprssig] Re: DR-135

From: Bill Vodall <[wa7nwp@yahoo.com](mailto:wa7nwp@yahoo.com)>  
Date: Fri, 22 Dec 2000 16:01:23 -0800 (PST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-125929-2000.12.22-18.13.22--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> > If I'm not mistaken, I believe my D700 signs on with a TASC0  
> copyright when  
> > you bring it up in packet mode.  
>  
> Hmmmm..... I'd say that is fairly conclusive... ;-)   
> Jeff

When I first saw the D7 TNC boot, I thought I had the wires connected to my old Heath HK21 pocket TNC. The HK21 is a Tasco TNC.

Bill

---

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Yahoo! Shopping - Thousands of Stores. Millions of Products.  
<http://shopping.yahoo.com/>

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#### 640. [aprssig] FCC Callsign Database?

From: Steve Bragg <steve@hamhud.net>  
Date: Fri, 22 Dec 2000 18:06:33 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125931-2000.12.22-18.21.48--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

OK, guys, I've searched the SIG archives, and I still can't find it.  
Does someone know the link to the zipped FCC amateur callsign database?  
I'd like to see how much the names/callsigns compress. And barring  
that, is there a way to get a list of all the APRS callsigns out of  
findu?

73,

Steve KA9MVA

---

```
  /_/_/_/_/_/ | /_/_/_/_/_/ | /_/_/_/_/_/ | /_/_/_/_/_/ |
 /_/_/_/_/_/ | /_/_/_/_/_/ | /_/_/_/_/_/ | /_/_/_/_/_/ |
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 /_/_/_/_/_/ | /_/_/_/_/_/ | /_/_/_/_/_/ | /_/_/_/_/_/ |
```

=====

Steve Bragg KA9MVA ka9mva@qsl.net ICQ:29816109  
HamHUD APRS Mobile Terminal: [www.hamhud.net](http://www.hamhud.net)  
Owasso, Oklahoma, USA  
Owasso Amateur Radio Club [www.qsl.net/oarc](http://www.qsl.net/oarc)  
FINDU, FIND ME WITH APRS! <http://map.findu.com/ka9mva-9>

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---

#### 641. [aprssig] Fw: call sign setup

From: "Leon Bird" <k7nww@home.com>  
Date: Fri, 22 Dec 2000 18:08:43 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125939-2000.12.22-20.17.19--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

----- Original Message -----

From: Leon Bird  
To: aprssig@tapr.org  
Sent: Friday, December 22, 2000 2:29 PM  
Subject: call sign setup

I am using APRS+ 1.99. In the setup window I enter My call  
"K7NWW" and save the information. When I return to the setup window my call has changed to "K7NWW/2". Is  
this  
normal? Is it a KPC3+ thing?

Alvis K7NWW

---

#### 642. [aprssig] D700 Microphone

From: robert <13764@udel.edu>  
Date: Fri, 22 Dec 2000 21:21:46 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125939-2000.12.22-20.38.12--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Has anyone that bought a Kenwood D700 recieved a microphone without the  
alpha characters printed on the mic.? Hard to type APRS messages  
without the letters on the mic.

Thanks, Robert Marley N3OBQ

---

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---

#### 643. [aprssig] Re: FCC Callsign Database?

From: Robbie Robertson <mwrobertson@mediaone.net>  
Date: Fri, 22 Dec 2000 21:11:44 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125942-2000.12.22-21.24.21--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Steve Bragg wrote:

>  
> OK, guys, I've searched the SIG archives, and I still can't find it.  
> Does someone know the link to the zipped FCC amateur callsign database?  
> I'd like to see how much the names/callsigns compress. And barring  
> that, is there a way to get a list of all the APRS callsigns out of  
> findu?  
>  
> 73,  
>  
> Steve KA9MVA

Hi Steve, Don't have it handy, but I believe Jeff's  
Questionable page has it at  
dididahdandidit.com

73!

--

- Robbie Robertson -  
...-.- wa9inf ...-.-

---

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---

#### 644. [aprssig] QUADRANTIDS METEOR SHOWER REGISTRATION

From: Richard Parry <rparry@qualcomm.com>  
Date: Fri, 22 Dec 2000 19:24:58 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125944-2000.12.22-21.37.48--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

- QUADRANTIDS METEOR SHOWER REGISTRATION PAGE OPEN - NEW AND IMPROVED!

Web Page registration is now available for those who will be participating  
in the upcoming Quadrantids Meteor Shower event Jan 1-5, 2001. The purpose  
of registering is to provide a real-time list of participants. This should  
expedite communication and increase the chances of success. It should take  
about 1 minute to complete. Click on the URL below and then click on REGISTER.

<http://w9if.net/cgi-bin/beaconet/main.pl>

thanks,  
Rich Parry, W9IF  
Rich Parry

---

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---

#### 645. [aprssig] Re: Mobile Packet Satellites

From: "Gregg G. Wonderly" <gregg@skymaster.c2-tech.com>  
Date: Fri, 22 Dec 2000 21:55:37 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125947-2000.12.22-22.15.52--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>For your holiday travels:  
>This is probably a better chart to show satellite access times for  
>satellites you can work from your mobile or Handheld packet station.

The heavens-above.com web site has a page for Amateur Radio satellites that I found. I am not sure how accurate the RF information is on this page, but it is quite a bit of information. The link below is for Tulsa Oklahoma passes. If you will just go to the main page, navigate to your part of the world to preselect your lat/lon or enter it manually, you can then select the "24 hour predictions for radio amateur satellites (all passes)" link and get the information for your location.

<http://www.heavens-above.com/amateursats.asp?lat=36.1931&lng=-96.0916&alt=0&loc=6%2C+Tulsa%2C+Oklahoma+USA&TZ=CST>

-----  
gregg@c2-tech.com (C2 Technologies Inc)

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---

## 646. [aprssig] New computer- need help switching aprs

From: Kd4emi@aol.com  
Date: Fri, 22 Dec 2000 23:14:13 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125948-2000.12.22-22.26.25--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I just bought a new computer. I want to move my APRS files and a bunch of other stuff from my old 133 pentium windows 95 system to my new Windoz me system

Can anyone offer via private email the easy way to do this....  
Thanks in advance  
Mike

---  
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---

## 647. [aprssig] techno geek stuff

From: Steve Coffin <coffin@xmission.com>  
Date: Fri, 22 Dec 2000 22:19:05 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125949-2000.12.22-23.30.53--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi Folks,

I'm quite new to this sport, but its quite interesting. I've sought documentation and found a few basic sources. But am still seeking some of the meat. Please let me know what sources I should consult. If my questions are answered in an FAQ somewhere please direct me there.

I've been experimenting with the aprs data streams by direct socket connection. I have some questions on how things work. I made a windows program to plot aprs stations on usgs topographic maps

1. Does one inject aprs packets into the stream by simply sending them to the same socket 23 connection used to receive them? Or is some other port or protocol required.
2. Is there any protocol for reducing redundant packets from different sources?
3. Does only one linux server handle all traffic or is there multiple redundant servers?
4. Are all servers linked or do specific servers serve specific areas?
5. What datum is used for aprs coordinate transmission? I'm assuming WGS84 from observation, but I have not seen this spelled out anywhere.

6. I'm curious what other topographic software people use with aprs. I use iGage's All Topo Maps product. It has a software API that allow the map display engine to be steered by external software. I'm curious if any others have similar API's

Thanks responses,

73, KB7QKC

Steve

---

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---

#### 648. [aprssig] D700 Microphone!!

From: "Lee H. Dahlen" <[kd4tqz@qsl.net](mailto:kd4tqz@qsl.net)>  
Date: Sat, 23 Dec 2000 01:03:39 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-125959-2000.12.23-00.15.52--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-125959-2000.12.23-00.15.52--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Contact Kenwood, or your dealer. You have recieved the Mic for the V7. The only difference is the screen printing. I'm sure they will replace it for you. Other than the printing on the mic, there is no difference.

Lee/KD4TQZ

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---

#### 649. [aprssig] RE: D700 Microphone

From: "Ciemon G0TRT" <[g0trtlists@btinternet.com](mailto:g0trtlists@btinternet.com)>  
Date: Sat, 23 Dec 2000 07:38:34 -0000  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-125966-2000.12.23-01.50.38--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-125966-2000.12.23-01.50.38--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Robert, the European version comes with that microphone.

Over here, well certainly in the UK, it's illegal to use a fist mike whilst driving, which is why I think they've given us a different mike.

When the D700's first came out I suggested that someone with the ability get hold of a 17 key numerical keyboard, just like the one on the left of most peoples PC keyboard and interface it with teh D700. It'd be quite useful over here, unfortunately I wouldn't know where to start.

73.....Ciemon Dunville G0TRT Sysop MB7UPG IGate  
ICQ - 6263612  
homepage - [www.aprsuk.net](http://www.aprsuk.net)  
Where is Ciemon's home station?  
<http://www.findu.com/cgi-bin/find.cgi?mb7upg>

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---

#### 650. [aprssig] Better 5 volt power supply



From: "Vic Fraenckel" <vfraenc1@nycap.rr.com>  
Date: Sat, 23 Dec 2000 06:07:56 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125969-2000.12.23-05.19.57--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I have always used the 7805 voltage regulator to provide 5 volts from a 12 volt power supply. As numerous posts have indicated, this is a somewhat inefficient way to proceed. In a recent project, I was plagued by the heat produced by using the 7805. In searching for a better solution, I came across the LM2675-5.0 simple switcher step down regulator from National Semiconductor. NS also offers an evaluation board for \$8.00 plus S/H. This board is approximately 1.5" x 1.5" in size with all surface mount components save for the connector. The board is rated at 1 amp. I purchased one and was pleasantly surprised with its performance. It certainly eliminated my heat problem.

Now I would like to build my own using all surface mount components. The problem is that the circuit requires a 47uH inductor that is not available from the usual mail order outfits like DigiKey and Mouser (to name a couple). Does anyone have an idea where I might find such a critter? I have tried the on-line part search route with no luck. I would like to find a location that would sell me 10 at a time. By the way, all the simple switcher ICs seem to require these rather specialized power inductors.

Any suggestions would be appreciated as would receiving a copy of your response.

TIA

Vic

---

Victor Fraenckel - The Windman  
KC2GUI

vfraenc1@nycap.rr.com  
www.windsway.com

Home of the WindReader Electronic Theodolite  
Read the WIND

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---

## 651. [aprssig] 10 Meter 300 baud APRS

From: "Michael Francoeur" <n1naf@mint.net>  
Date: Sat, 23 Dec 2000 09:44:53 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-125982-2000.12.23-08.55.45--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Is anyone doing 300 baud APRS on 10 meters? If so, what frequency?

- Mike/N1NAF

---

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---

## 652. [aprssig] Advice for WX digi needed

From: Robert W Burton <kd4ydc@juno.com>  
Date: Sat, 23 Dec 2000 09:57:34 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: prosserp@Sowega.net  
Message-ID: <LYR842-125983-2000.12.23-09.14.57--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I have been asked for some advice. I want to pass this along to the SIG because I think the folks here are better educated to give this gentleman some advice. If you look to South GA and see WA4RWS, this is the digi. Paul sent me some pics and some text on his digi. I wanted to pass this along to give you some info on it. Of course I didn't send the pics to the SIG so people like myself (using Juno on my list groups) would not see garbage instead of pictures. Here is the text from his email.....unedited.

Advice....best WX station to add to his digi.....

Thanks and 73,  
Robert

Robert, I am installing electricity in the shop where the APRS station is located. I am currently running it on a long cord, battery and trickle charger. I decided to go solar without a grid tie. First I build a mounting bracket for the solar panels which are 75watt @17.1Vdc each. The bracket will tilt to allow adjusting the angle depending on the month of the year. Then I installed the solar panels on the APRS tower. They are wired into a junction box so I can add more as the load increases. I expect to have 8 up there before too long. I mounted some surplus bus bars I had for the DC bus and built a control panel. The negative bus is tied to the common ground. I plan to cover the hole in the control panel with plexiglas, so all the wiring is visible. I have a large L A R G E battery 1700ah @24vdc to store up the energy. I purchased but sent back a 24 to 13.8vdc regulator that I plan to use to power the APRS station. I should have it back in a couple of weeks. The battery was a little heavy. Now I know why I put a hoist in the shop. Just to the left of the control panel is the transfer switch to allow a generator and in the bottom left is the lighting panel that will receive 240Vac @35A from a pair of inverters. It should be the best powered APRS station in the state.. (Antenna system) 3/4" 75 Ohm hardline with matching stubs and 2ea 124WB Cushcraft 4 element beams, one pointing North & one South at 130ft.

---

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---

### 653. [aprssig] Re: 10 Meter 300 baud APRS

From: "The Germino's" <[mgermino@inreach.com](mailto:mgermino@inreach.com)>  
Date: Sat, 23 Dec 2000 07:22:34 -0800  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-125984-2000.12.23-09.37.09--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-125984-2000.12.23-09.37.09--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Is anyone doing 300 baud APRS on 10 meters? If so, what frequency?  
>  
> - Mike/N1NAF

I believe that from 28.0 to 28.3 MHz you can run 1200 baud

Mike

---

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### 654. [aprssig] RE: 10 Meter 300 baud APRS

From: [WA4TKGMatt@aol.com](mailto:WA4TKGMatt@aol.com)  
Date: Sat, 23 Dec 2000 11:03:58 EST  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-125991-2000.12.23-10.16.07--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-125991-2000.12.23-10.16.07--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

In Japan, there is a national packet frequency, 29.090Mhz; 1200bps, FM.

Never heard anything on it from down here in Florida.

---

### 655. [aprssig] RE: D700 Microphone

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Sat, 23 Dec 2000 11:10:39 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-125992-2000.12.23-10.22.44--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-125992-2000.12.23-10.22.44--lyris.aprssig#tapr.org@lists.tapr.org)>

Rendered body type: text/plain

On Sat, 23 Dec 2000, Ciemon G0TRT wrote:

> Over here, well certainly in the UK, it's illegal to use a fist mike whilst  
> driving, which is why I think they've given us a different mike.  
>  
> When the D700's first came out I suggested that someone with the ability  
> get hold of a 17 key numerical keyboard...

John Hanson built a PIC interface for a standard PC keyboard to the D700  
and demonstrated it at DCC. It is a BEAUTIFUL and elegant solution. He  
got enough new suggestions from DCC, that he is re-doing it before making  
it available...

de WB4APR@amsat.org, Bob

See my APRS LIVE pages <http://web.usna.navy.mil/~bruninga/aprs.html>  
See APRS SATELLITES <http://web.usna.navy.mil/~bruninga/astars.html>  
See MIM/Mic-E/Mic-Lite <http://www.tapr.org/tapr/html/mic-e.html>

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---

## 656. [aprssig] Re: Better 5 volt power supply

From: "Jeff Brenton" <[jeffb@espi.com](mailto:jeffb@espi.com)>  
Date: Sat, 23 Dec 2000 10:58:14 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-125994-2000.12.23-11.10.19--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Power Trends, now part of Texas Instruments, sells a variety of 78xx  
replacements that are switchers... they fit right in to most 78xx circuits.

Unfortunately, in moving things a couple months ago, my reference materials  
got put into storage. Hopefully, this will jog the memory of someone who has  
it, to get the proper part numbers posted...

Jeff Brenton, Amateur Radio call sign KA9VNV  
<http://espi.com>  
Questionable web page: <http://dididahdahdidit.com>  
That strange feeling that you've never  
done this before: <http://uvajed.espi.com>

"Modern Liberalism: The embodiment of an irrational fear of  
letting other people run their own lives."

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## 657. [aprssig] Re: techno geek stuff

From: K5QQ@aol.com  
Date: Sat, 23 Dec 2000 11:58:17 EST  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-125995-2000.12.23-11.11.18--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In a message dated 12/22/2000 10:23:18 PM Mountain Standard Time,  
[coffin@xmission.com](mailto:coffin@xmission.com) writes:

> 5. What datum is used for aprs coordinate transmission? I'm assuming  
> WGS84 from observation, but I have  
> not seen this spelled out anywhere.  
>  
> 6. I'm curious what other topographic software people use with aprs. I  
> use iGage's All Topo Maps product.  
> It has a software API that allow the map display engine to be steered by  
> external software. I'm curious  
> if any others have similar API's

Hi Steve

'I know nothing' on any of the questions you asked but will comment that Street Atlas maps use the WGS84 datum and so we recommend to the local SAR team to have their GPS units set to that when they are driving around. It helps keep them on the streets better. The caveat is that Street Atlas has errors, which I suspect are datum errors, and so even setting all of the GPS units to WGS84 does not always work.

On the item 6, our SAR team uses Mark Silvers iGage ATM quite extensively and I would be very interested in learning if you adapted APRS+ to drive it. It would really make it great for our foot teams as the Street Atlas maps have no details in the mountains. The use of Topo USA is a bit too clunky and not a lot of our members care very much for the program.

Thanks

Jim K5QQ

---

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## 658. [aprssig] Re: techno geek stuff

From: Steve Coffin <coffin@xmission.com>  
Date: Sat, 23 Dec 2000 11:14:03 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126005-2000.12.23-12.25.53--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

K5QQ@aol.com wrote:

>  
> On the item 6, our SAR team uses Mark Silvers iGage ATM quite  
extensively and  
> I would be very interested in learning if you adapted APRS+ to drive  
it. It  
> would really make it great for our foot teams as the Street Atlas maps  
have  
> no details in the mountains. The use of Topo USA is a bit too clunky  
and not  
> a lot of our members care very much for the program.

Cool, I'm glad to hear you use Marks stuff. Mark is a new, but already  
good  
friend of mine. We live here in the same area and have gone on a few  
hikes together.  
We plan to place my program on his web site for free download. I see no  
reason  
not to include all the source code as well. I'm doing this as a learning  
experience and I thought I might as well make something useful for  
people  
in SAR.

You mention something very interesting to me up above. I've never  
heard of APRS+ but if its what I think it is I may have been recreating  
the wheel. I've written my own console application to open a socket  
and parse incoming aprs data and then track a list of user  
specified stations. I've also added the capability to dynamically  
add new stations to the history if they are with a user specified radius

of a userspecified station. I then write the data out to a hwp file and  
then  
tell AllTopo maps to load it. Mark built in a shared memory  
structure into AllTopo that allows external programs to drive  
it as a map display engine. At my request he also added a keystroke  
feed though feature that allow external programs to  
be fed keystrokes while AllTopo is in the foreground.

My programs down fall is that my parsing sucks, I've wanted to use bison  
an flex  
to do the parsing part right but if there is some prior art out there I  
can draw  
on that would speed things up significatly.

I'm also interested in getting my program into the hands of hams and SAR

people to  
see how it works and what features I should add. Sound like you might be  
one such  
person.

Let me know.

and Thanks again,

73,

KB7QKC

Steve

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## 659. [aprssig] Re: Better 5 volt power supply

From: Jeff King <[jeff@aerodata.net](mailto:jeff@aerodata.net)>  
Date: Sat, 23 Dec 2000 14:50:38 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-126011-2000.12.23-14.06.04--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Vic Fraenckel wrote:

> I have always used the 7805 voltage regulator to provide 5 volts from a 12  
> volt power supply.  
...  
> In searching for a better solution, I came across  
> the LM2675-5.0 simple switcher step down regulator from National Semiconductor.  
...  
> It certainly eliminated my heat problem.  
...  
> Now I would like to build my own using all surface mount components. The  
> problem is that the circuit requires a 47uH inductor that is not available  
> from the usual mail order outfits like DigiKey and Mouser

How about the toroid inductors DigiKey sells?

<http://www.digikey.com/EC/V3/323.pdf>  
<http://www.digikey.com/EC/V3/325.pdf>  
<http://www.digikey.com/EC/V3/593-594.pdf>

Should get you close.

> Any suggestions would be appreciated as would receiving a copy of your  
> response.

Since you asked, and I went down the same route as you did (for a mobile  
data computer), I'll tell you where I ended up. I now use the PowerTrend  
regulators that DigiKey also sells:

<http://www.digikey.com/EC/V3/227-229.pdf>

The device I used is the PT6302 (5V at 3amps) but you should be able to get  
away with using the PT5101. This part is a drop in replacement for your 7805...  
inductor is built into it. I believe you need to add a 100uf cap to the output  
and you are done. I know the switching frequency is above DPGS on the PT6302  
which may or may not be a consideration for you (the National parts are right  
in the middle of the band).

Good luck

-Jeff

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## 660. [aprssig] Re: techno geek stuff

From: K5QQ@aol.com  
Date: Sat, 23 Dec 2000 15:18:28 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126014-2000.12.23-14.30.41--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In a message dated 12/23/2000 11:09:47 AM Mountain Standard Time,  
coffin@xmission.com writes:

> You mention something very interesting to me up above. I've never heard of  
APRS+  
> but if its what I think it is I may have been recreating the wheel.

Hi Steve

Yes you sure are!! I didn't realize from your first post exactly what you  
were doing but in your second note it became very clear you were reinventing  
APRS.

Check out [www.tapr.org](http://www.tapr.org) for a list of all kinds of APRS info and other links.  
You can also get the latest APRS+ from the following link.

<A HREF="ftp://www.tapr.org/aprssig/winstuff/APRSPLUS/">APRS+ FTP Site</A>

The file you want is labled Beta199YG.zip.

Give me a shout back after you check out Brent's program.

C U

Jim K5QQ

---

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## 661. [aprssig] Re: FCC Callsign Database?

From: KC7ZRU - Casper <kc7zru@arrl.net>  
Date: Sat, 23 Dec 2000 16:49:14 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126026-2000.12.23-18.01.41--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Mmm, must not've reached you Steve. I sent it to you on the HamHUD list  
yesterday.

Here it is again:

Quite a few of us running xastir use the FCC database. It's big - real  
big. How big? Take a visit to:

[ftp://ftp.fcc.gov/pub/Bureaus/Wireless/Databases/uls/complete/l\\_amat.zip](ftp://ftp.fcc.gov/pub/Bureaus/Wireless/Databases/uls/complete/l_amat.zip)  
(47,394,157 bytes)

And get your copy. For xastir, we use only the EN.dat file in that  
archive. Uncompressed, EN.dat's around 77Mb, if memroy serves. (Take a  
look at <http://xastir.dididahdidit.com/dl.html> for info on 'sorting'  
this bad boy into a usable form for xastir).

:: rest snipped ::

73

Steve Bragg wrote:

>  
> OK, guys, I've searched the SIG archives, and I still can't find it.  
> Does someone know the link to the zipped FCC amateur callsign database?  
> I'd like to see how much the names/callsigns compress.

--

Laramie, WY | UARC Repeater  
DN71eh | 146.610  
"The Dungeon" online at <http://go.to/kc7zru>

"RTFM" is NOT a 'four letter' word!

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## 662. [aprssig] Re: New computer- need help switching aprs

From: KC7ZRU - Casper <kc7zru@arrl.net>  
Date: Sat, 23 Dec 2000 16:54:14 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126027-2000.12.23-18.12.00--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Click on 'START' then 'HELP' search on "Using Direct Cable Connection to connect to another computer"

Or - pull the IDE drive from your old box, set it up as a Slave drive - slap it into your new one and do 'drag & drop' with Windows Explorer...

73

Kd4emi@aol.com wrote:

>  
> I just bought a new computer. I want to move my APRS files and a bunch of  
> other stuff from my old 133 pentium windows 95 system to my new Windoz me  
> system  
>  
> Can anyone offer via private email the easy way to do this....  
> Thanks in advance  
> Mike  
>

--

Laramie, WY | UARC Repeater  
DN71eh | 146.610  
"The Dungeon" online at <http://go.to/kc7zru>  
"RTFM" is NOT a 'four letter' word!

---

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## 663. [aprssig] APRS Big Event needed.

From: Bob Bruninga <bruninga@usna.edu>  
Date: Sat, 23 Dec 2000 23:56:21 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126039-2000.12.23-23.08.55--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

One more Satellite note for everyone:  
Remember ANYONE, anywhere with any APRS tracker can be tracked via  
SUNSAT. SUNSAT listens for plain-ole 1200 baud APRS just like  
10,000 of you are doing... and reports it to FINDU.COM 4 times a day.

But apparently we need something worthwhile to track to gain any interest  
in this mode. So I ask the APRS community at large to keep in mind our  
worldwide global reach with SUNSAT and to look for an interesting  
opportunity to show off this capability.

We can't wait another 4 years for the olympic touch, but it should be  
something of general HAM radio interst. Does anyone know of any

Off-shore boaters transiting the oceans?  
Anyone in Alaska or the North West Territories all alone  
Any DXpeditions enroute to distant isles?  
Anyone traveling in Antarctica?  
Anyone FLY across the atlantic or around the world regularly?  
Anyone shipping any freight on an ocenaliner?  
Anyone want to toss a buoy in the ocean?  
Anyone traveling cross country regularly?

All they have to do is QSY their tracker over to 145.825 for 2 hours or so  
between 0230 to 0530 or 1500 to 1800 local sun time and set their path VIA  
APRSAT... Check your success on FINDU.COM

I'ts getting kinda boring watching my car sitting in the driveway...:-(

No one's listening because no one is transmitting... no one is transmitting because no one is listening...

de WB4APR@amsat.org, Bob

See my APRS LIVE pages    <http://web.usna.navy.mil/~bruninga/aprs.html>  
See APRS SATELLITES       <http://web.usna.navy.mil/~bruninga/astars.html>  
See MIM/Mic-E/Mic-Lite    <http://www.tapr.org/tapr/html/mic-e.html>

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## 664. [aprssig] PAGERS

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Sun, 24 Dec 2000 00:16:58 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-126041-2000.12.23-23.29.28--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-126041-2000.12.23-23.29.28--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Always looking for new ways to play with RF, tnoight I noticed a new FREEPAGER service that is free except for 35 cents per page. THus for the price of the pager, I can turn something ON/OFF remotely indefinately...

Hummh..... I could connect that to a MIM/Mic-Lite and GPS and it could sleep for months on some AA batteries. If I ever wanted to konw where it was, I could "page" it and then watch it pop up on the map!

Does anyone konw anything about this new pager service? Is it 900 MHz or 470 MHz? How long does the pager last on its one AAA battery?

Actually, if you were tracking something anywhere in the country and just wanted to know what city it was in, then you dont even need GPS. The vicinity tracking feature of APRS would plot it on the map near its first digi it hits...

de WB4APR@amsat.org, Bob

See my APRS LIVE pages    <http://web.usna.navy.mil/~bruninga/aprs.html>  
See APRS SATELLITES       <http://web.usna.navy.mil/~bruninga/astars.html>  
See MIM/Mic-E/Mic-Lite    <http://www.tapr.org/tapr/html/mic-e.html>

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Questions regarding the SIG go to the SIG administrator: [wallou@tapr.org](mailto:wallou@tapr.org)

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## 665. [aprssig] Re: APRS Big Event needed.

From: Bill Vodall <[wa7nwp@yahoo.com](mailto:wa7nwp@yahoo.com)>  
Date: Sat, 23 Dec 2000 21:20:51 -0800 (PST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-126042-2000.12.23-23.33.02--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-126042-2000.12.23-23.33.02--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

> All they have to do is QSY their tracker over to 145.825 for 2 hours  
> or so  
> between 0230 to 0530 or 1500 to 1800 local sun time and set their  
> path VIA  
> APRSAT... Check your success on FINDU.COM

Ok. I haven't been paying much attention to requirements for doing this. I have a Tiny Trak with Alinco low power HT (SJ11) just sitting on the shelf. No reason I couldn't "turn it on" and see what happens.. No external antenna. Just the little whip. I suppose I could put it in the window of the house or car.

Is that worth trying?

Bill



---

Do You Yahoo!?  
Yahoo! Shopping - Thousands of Stores. Millions of Products.  
<http://shopping.yahoo.com/>

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---

## 666. [aprssig] RE: GPS for D700A

From: [WA8LMF1@aol.com](mailto:WA8LMF1@aol.com)  
Date: Sun, 24 Dec 2000 04:09:15 EST  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-126062-2000.12.24-03.21.25--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In a message dated 12/22/00 10:34:01 AM Pacific Standard Time,  
[g0trtl@lists.btiinternet.com](mailto:g0trtl@lists.btiinternet.com) writes:

<< I've just ordered an iGPS from  
<http://www.pharosgps.com/Product/product.html>  
>>

I've been playing with one for a week now and find it locks up very fast. If you power it from a PC's PS/2 keyboard port (so it gets powered up when you turn on the PC) basically by the time Windows goes through it's ponderous boot process and autostarts an application like Street Atlas or APRSplus, it will be in lock.

However .... It seems to be incredibly sensitive to VHF RF!!! Every time I key up on two meters (with even as little as 5 watts), it gets knocked out of lock and seems have to go through a cold start routine all over to recover. Definitely bad news when you are transmitting beacons on 2M!

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## 667. [aprssig] Re: TASC0 TNC Chip [Was Re: DR-135]

From: [WA8LMF1@aol.com](mailto:WA8LMF1@aol.com)  
Date: Sun, 24 Dec 2000 04:21:02 EST  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-126063-2000.12.24-03.35.42--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In a message dated 12/22/00 1:09:21 PM Pacific Standard Time,  
[jeff@aerodata.net](mailto:jeff@aerodata.net) writes:

<< I find it hard to believe that TASC0 made it. In the sense they have been making TNC's for some time, and there are so many oversights that should be second nature to any experienced TNC designer.

Who said TASC0 made it? >>

Open up a D700 and you can clearly see TASC0 on the VLSI chip on the PC board. They seem to have a record of egregiously firmware design. They are also responsible for the hopelessly buggy firmware in the Kenwood VCH-1 handheld SSTV system (which uses the same chip as TASC0's stand-alone SSTV scan converter). The thing powers up in the no-longer-commonly-used Robot 36 SSTV mode, then switches to whatever mode it hears on an incoming signal. The next transmission is in whatever mode it last heard. Except that after two or three transmissions, it then fails to transmit. You then have to turn the unit off and then back on (which makes it revert to Robot 36 and lose the mode it was trained to). This is a consistent bug that they haven't done anything about in over 3 years now...

Stephen H. Smith [WA8LMF@aol.com](mailto:WA8LMF@aol.com)  
Web Page: <http://members.aol.com/wa8lmf>  
Mobile SSTV: <http://members.aol.com/wa8lmf/ham>

---

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---

## 668. [aprssid] Re: Better 5 volt power supply

From: WA8LMF1@aol.com  
Date: Sun, 24 Dec 2000 05:04:59 EST  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <LYR842-126064-2000.12.24-04.17.13--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In a message dated 12/23/00 3:12:55 AM Pacific Standard Time,  
[vfraenc1@nycap.rr.com](mailto:vfraenc1@nycap.rr.com) writes:

<< have always used the 7805 voltage regulator to provide 5 volts from a 12 volt power supply. As numerous posts have indicated, this is a somewhat inefficient way to proceed. In a recent project, I was plagued by the heat produced by using the 7805. >>

Check out the tiny DC-DC converters made by AstroDyne at:  
<http://www.astrodyne.com>

They make an incredible array of tiny AC-DC and DC-DC converters. One series will take 9-30 VDC in and produce a single or split DC voltage out from a sealed metal can about .8" by 1.25" by .3" thick. There is complete isolation between the DC input and the output which is great for breaking up ground loops in mobile installations. These devices are available in ratings ranging from 3 watt out (VKC03-24505 - \$32 in singles) to 25 watts out (SKE25A-05 - \$69 in singles). They WILL take personal orders for small quantities direct from the factory.

If you don't need isolation and can live with a common ground on the input and output, check out the Powertrends switch mode replacements for standard 78xx regulators. These devices are pin-compatible with TO-200 style 7800 regulators although the body of the device is larger than a standard 78xx. They are in the Digikey catalog, or check their website:

<http://focus.ti.com/docs/prod/productfolder.jhtml?genericPartNumber=78SR105&familyID=462>

[ Powertrends has been bought out by Texas Instruments ]

They are about \$16-18 from the DigiKey catalog and are available in a wide range of output voltages ( 3.3, 5, 6, 8, 9, 12, 15, etc).

I have used both devices in my mobile SSTV/APRS systems. I started with a 8-36VDC input /split + and -12VDC output 15 watt Astrodyne to have an isolated supply for op-amp audio distribution amps. I then knock the +12VDC side down to +6VDC with a Powertrend to power a Kenwood VCH-1 and a Sony digicam. I also regulate the +12 down to +5VDC with a second Powertrend to power the GPS and a video titler module that puts my call sign over SSTV pics. And all isolated from the fluctuating voltages and whine of the car's alternator.

Stephen H. Smith WA8LMF@aol.com  
Web Page: <http://members.aol.com/wa8lmf>  
Mobile SSTV: <http://members.aol.com/wa8lmf/ham>

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---

## 669. [aprssid] RE: GPS for D700A

From: WA8LMF1@aol.com  
Date: Sun, 24 Dec 2000 05:18:57 EST  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <LYR842-126065-2000.12.24-04.31.06--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In a message dated 12/24/00 1:23:13 AM Pacific Standard Time,  
[feek@bigfoot.com](mailto:feek@bigfoot.com) writes:

<< found similar when I first had one [ Pharos iGPS ] mounted in my car. The trick was to nail the unit under the front windscreen (sorry, I of course mean the 'windshield') and have the transmitting aerial on the boot (sorry, I mean the 'trunk')

>>

My installation is in a VW Passat TDI (TurboDiesel) wagon with the Pharos antenna exactly as you have, and the transmit antenna in the center of the roof. [ Should have the entire interior in much more of an RF shadow than an antenna on a sedan's rear deck but it still wipes it out.] For some reason, 50 watts on UHF or 6M doesn't seem to bother it at all. I suspect the cable or something inside the unit is resonant at VHF... Some experiments with ferrites and 1/4-wave stubs in the offing...

Stephen H. Smith WA8LMF@aol.com  
Web Page: <http://members.aol.com/wa8lmf>  
Mobile SSTV: <http://members.aol.com/wa8lmf/ham>

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---

## 670. [aprssig] UIDIGI 1.7 Setup Info Needed...

From: WA8LMF1@aol.com  
Date: Sun, 24 Dec 2000 05:45:03 EST  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-126067-2000.12.24-04.57.09--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I am configuring an MFJ-1270 TAPR-2 clone with the UIDIGI 1.7 firmware. I have successfully edited the overlay and blown the eeprom. The unit is on-the-air now and seems to be digipeating just fine (I am monitoring off-the-air with a scanner and another TNC) .

However, I can't see anything going on via the local serial port of the TNC. I can connect a PC running a terminal program (either the venerable DOS ProComm or Windows HyperTerm 5.0) to the serial port and see the sign-on with my embedded callsign and the UIDIGI 1.7 copyright notice at powerup. [I assume this confirms that baud rate, parity, etc are proper.] I can type out "sysop" commands listed in the documentation such as "INFO" or "MHEARD" and see the command echoed, but no response to it. [The TNC works perfectly with it's original MFJ firmware, so no hardware problems AFAIK. ]

Is there some trick to enabling response to typed commands?  
Is there any way to monitor received traffic off-the-air like a "normal" TNC-2 ?

Stephen H. Smith WA8LMF@aol.com  
Web Page: <http://members.aol.com/wa8lmf>  
Mobile SSTV: <http://members.aol.com/wa8lmf/ham>

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---

## 671. [aprssig] Re: ATTN Pilots; International Air Traffic Route Freqs ?; ACRS ?

From: "Kriss Alan Kliegle" <[kliegle@nh.ultranet.com](mailto:kliegle@nh.ultranet.com)>  
Date: Sun, 24 Dec 2000 7:3:32  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-126074-2000.12.24-07.15.35--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Here's some from the memories in my HF rig. I don't have any North Atlantic charts here at the house but they got them at work....

2887  
5550  
6577  
8846  
8919  
11396  
13297  
17907

Others in memories:

3016  
5598

8825  
13306  
17946  
6640

5696 These two are S&R freqs for Camslant (VA)  
8983

All freqs for aircraft on HF is USB despite the automatic LSB below 10  
Mhz.  
Also the above freqs are in Khz.

Good luck  
Kriss  
KA1GJU

---

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---

## 672. [aprssig] Re: Better 5 volt power supply

From: "David D" <brozgrimm@hotmail.com>  
Date: Sun, 24 Dec 2000 14:35:50 -0000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: vfraenci@nycap.rr.com  
Message-ID: <LYR842-126080-2000.12.24-08.47.51--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Coilcraft was the inductor recommended by National's Simple  
Switcher software for the power supply I was designing. I  
believe I was able to order the inductor from their web page.  
A quick check of their web page shows that they have increased  
the online ordering offerings over when I ordered from it about  
2 years ago now. I have been able to order the switching supply  
inductors from several other manufactures as well.

While the Digikey power modules may be nicely packaged, they  
seem a little costly, especially considering that National gives  
samples free, and most of the other components can be found  
fairly cheaply. Home brewed switching power supplies have  
been made really simple now by National.

--david

Get your FREE download of MSN Explorer at <http://explorer.msn.com>

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---

## 673. [aprssig] Tracking Santa and Rudolph.

From: "Wes Johnston" <wes@johnston.net>  
Date: Sun, 24 Dec 2000 09:47:38 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126081-2000.12.24-09.00.03--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

<http://www.noradsanta.org/>

Just a little PSA from me to ya'll.... merry Christmas!

Wes

---

## 674. [aprssig] Yaesu FT1500+KPC3+

From: "Alex Pinheiro Machado Rodrigues" <alex@bsbnet.com>  
Date: Sun, 24 Dec 2000 14:30:49 -0200  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126093-2000.12.24-10.43.05--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi sig.

One question: I installed a ft1500 with kpc3+ but the radio can't hear or  
transmit thru 1200 rear plug. 1500 is configured to packet at 1200. Do I  
have to do something? Is it plug and play?

Thanks.

Alex, PT2VHF

---

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## 675. [aprssig] Unhandled exception error

From: "Alex Pinheiro Machado Rodrigues" <alex@bsbnet.com>  
Date: Sun, 24 Dec 2000 14:42:46 -0200  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126096-2000.12.24-10.54.57--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi sig.  
I'm leaving my city for vacations and I need my igate running without problems for 2 weeks. I use winaprs (don't have linux). What I must do to fix the problem with winaprs error?  
Thanks.  
Alex, PT2VYHF

---

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## 676. [aprssig] Re: Yaesu FT1500+KPC3+

From: "Clayton H. Owen" <aa3jy@erols.com>  
Date: Sun, 24 Dec 2000 11:42:26 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126098-2000.12.24-10.55.36--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Alex Pinheiro Machado Rodrigues wrote:  
>  
> Hi sig.  
> One question: I installed a ft1500 with kpc3+ but the radio can't hear or  
> transmit thru 1200 rear plug. 1500 is configured to packet at 1200. Do I  
> have to do something? Is it plug and play?  
> Thanks.  
> Alex, PT2VHF

Yes..pretty much so..I have a couple of 'em. Check pages 8,9 and 35.

---

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## 677. [aprssig] Re: Better 5 volt power supply

From: Dale Seaburg <kg5lt@earthlink.net>  
Date: Sun, 24 Dec 2000 10:53:06 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126100-2000.12.24-11.06.17--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

As Jeff pointed out, Power trends is a "drop-in" substitute for the 7805. Digikey does handle Power Trends, but they are NOT cheap. Typical part number for a 5v out @ 1 amp is PT5101C-ND going for \$13.84US... See pages 227-229 of their latest catalog for Power Trends products.

BTW, I did find that Digikey does have inductors that will work in switchers. See pages 585, 586 and 594 of their latest catalog for examples.

Hope this helps.

73 - Dale. KG5LT

-----

Jeff wrote:

> Power Trends, now part of Texas Instruments, sells a variety of 78xx

> replacements that are switchers... they fit right in to most 78xx circuits.

Vic wrote:

> I have always used the 7805 voltage regulator to provide 5 volts from a 12  
> volt power supply. As numerous posts have indicated, this is a somewhat  
> inefficient way to proceed. In a recent project, I was plagued by the heat  
> produced by using the 7805. In searching for a better solution, I came across  
> the LM2675-5.0 simple switcher step down regulator from National  
> Semiconductor. NS also offers an evaluation board for \$8.00 plus S/H. This  
> board is approximately 1.5" x 1.5" in size with all surface mount components  
> save for the connector. The board is rated at 1 amp. I purchased one and was  
> pleasantly surprised with its performance. It certainly eliminated my heat  
> problem.  
>  
> Now I would like to build my own using all surface mount components. The  
> problem is that the circuit requires a 47uH inductor that is not available  
> from the usual mail order outfits like DigiKey and Mouser (to name a  
> couple). Does anyone have an idea where I might find such a critter? I have  
> tried the on-line part search route with no luck. I would like to find a  
> location that would sell me 10 at a time. By the way, all the simple  
> switcher ICs seem to require these rather specialized power inductors.

---

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---

## 678. [aprssig] RE: Unhandled exception error

From: Peter Anderson <panderson@CenterPartners.com>  
Date: Sun, 24 Dec 2000 10:04:28 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "TAPR APRS Special Interest Group (E-mail)" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126102-2000.12.24-11.16.38--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

That is a good question, I run NT here and I have had the same error, I have posted the question to the list and have not gotten an answer so far but a lot of people have the same error. I have mailed the list with no success so if you find an answer let us all know.

Peter

-----Original Message-----

From: Alex Pinheiro Machado Rodrigues [mailto:alex@bsbnet.com]  
Sent: Sunday, December 24, 2000 9:43 AM  
To: TAPR APRS Special Interest Group  
Subject: [aprssig] Unhandled exception error

Hi sig.  
I'm leaving my city for vacations and I need my igate running without problems for 2 weeks. I use winaprs (don't have linux). What I must do to fix the problem with winaprs error?  
Thanks.  
Alex, PT2VYHF

---

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## 679. [aprssig] Re: Unhandled exception error

From: David VanHorn <dvanhorn@cedar.net>  
Date: Sun, 24 Dec 2000 12:10:07 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126103-2000.12.24-11.24.47--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 02:42 PM 12/24/00 -0200, Alex Pinheiro Machado Rodrigues wrote:  
> Hi sig.

>I'm leaving my city for vacations and I need my rig running without  
>problems for 2 weeks. I use winaprs (don't have linux). What I must do to  
>to fix the problem with winaprs error?

Wait for a fix from the sprouls.

--  
Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

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---

## 680. [aprssig] ADMIN: Definitely off-topic

From: Stan Horzepa <[stanzepa@mail2.nai.net](mailto:stanzepa@mail2.nai.net)>  
Date: Sun, 24 Dec 2000 12:18:39 +0000  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-126116-2000.12.24-11.31.38--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Season's Greetings from the APRSSIG administration staff!

Have Fun!

Stan, WA1LOU

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## 681. [aprssig] 10 Meter 300 baud APRS

From: "Michael Francoeur" <[n1naf@mint.net](mailto:n1naf@mint.net)>  
Date: Sun, 24 Dec 2000 12:30:35 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-126118-2000.12.24-11.41.30--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Thanks for the replies and the info on 1200 baud APRS on 10 meters.  
However, my equipment is only capable of 300 baud packet on HF and I was wondering if there was any such activity on 10 meters. Also if anyone is doing anything else on any of the other HF band (except 30 meters) please email.

Happy Holidays

- Mike/N1NAF

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---

## 682. [aprssig] Re: Unhandled exception error

From: "Jeff Brenton" <[jeffb@espi.com](mailto:jeffb@espi.com)>  
Date: Sun, 24 Dec 2000 11:53:50 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-126121-2000.12.24-12.10.25--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

To minimize (but not eliminate) problems, you need to disallow incoming data from internet... but, I haven't played with WinAPRS to see if you can allow 3rd party traffic, while ignoring incoming internet traffic. You CAN feed traffic to internet in this configuration, though.

Your only other alternative... APRS+SA.

Jeff Brenton, Amateur Radio call sign KA9VNV  
<http://espi.com>  
Questionable web page: <http://dididahdahdidit.com>  
That strange feeling that you've never  
done this before: <http://uvajed.espi.com>

"Modern Liberalism: The embodiment of an irrational fear of letting other people run their own lives."

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### 683. [aprssig] Re: Unhandled exception error

From: "Eric Reid" <reid@sympatico.ca>  
Date: Sun, 24 Dec 2000 13:00:04 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126123-2000.12.24-12.15.42--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Alex,  
Give UI-View a try!  
I have never seen the dreaded UXE error while using UI-View.  
Eric

----- Original Message -----

From: "Alex Pinheiro Machado Rodrigues" <alex@bsbnet.com>  
Subject: [aprssig] Unhandled exception error

> Hi sig.  
> I'm leaving my city for vacations and I need my igate running without  
> problems for 2 weeks. I use winaprs (don't have linux). What I must to do  
> to  
> to fix the problem with winaprs error?  
> Thanks.  
> Alex, PT2VYHF

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### 684. [aprssig] Re: Unhandled exception error

From: "Alex Pinheiro Machado Rodrigues" <alex@bsbnet.com>  
Date: Sun, 24 Dec 2000 16:10:51 -0200  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126125-2000.12.24-12.23.20--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Thanks Jeff, I will test it.  
Me and a friend are creating a igate software for Windows and will be  
available in 1 or 2 months. This software will not display maps, but will  
display some good informations about the RF and Internet traffic. Should be  
a good option to install a igate, but will never will be beter than aprsd,  
of course:)  
Thanks !

Alex, PT2VHF  
Brazil

----- Original Message -----

From: "Jeff Brenton" <jeffb@espi.com>  
To: "Alex Pinheiro Machado Rodrigues" <alex@bsbnet.com>; "TAPR APRS Special  
Interest Group" <aprssig@lists.tapr.org>  
Sent: Sunday, December 24, 2000 3:53 PM  
Subject: Re: [aprssig] Unhandled exception error

To minimize (but not eliminate) problems, you need to disallow incoming data  
from internet... but, I haven't played with WinAPRS to see if you can allow  
3rd party traffic, while ignoring incoming internet traffic. You CAN feed  
traffic to internet in this configuration, though.

Your only other alternative... APRS+SA.

Jeff Brenton, Amateur Radio call sign KA9VNV  
<http://espi.com>



Questionable web page: <http://dididahdahdidit.com>  
That strange feeling that you've never  
done this before: <http://uvajed.espi.com>

"Modern Liberalism: The embodiment of an irrational fear of  
letting other people run their own lives."

---

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---

## 685. [aprssig] Re: UIDIGI 1.7 Setup Info Needed...

From: Greg Noneman <[greg@clubnet.net](mailto:greg@clubnet.net)>  
Date: Sun, 24 Dec 2000 10:48:13 -0800  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-126128-2000.12.24-13.00.57--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On 12/24/00 Stephen Smith wrote:

>I am configuring an MFJ-1270 TAPR-2 clone with the UIDIGI 1.7 firmware.

Do you have plans for putting up a UIDIGI based digi in Southern  
California?

>

>However, I can't see anything going on via the local serial port of the  
>TNC.

....

>Is there some trick to enabling response to typed commands?

>From the local serial port, you must first "connect" to the TNC.  
Interface is similar to the old NETROM software:

- 1) Type an ESC and you should receive a "\*" prompt.
- 2) Type (C)onnect and you should get "CONNECTED TO XXXXXX"
- 3) From this point you should be able to type the standard commands and  
get responses.
- 4) ESC (==> "\*") and "D" will disconnect you from the local interface  
mode

>Is there any way to monitor received traffic off-the-air like a "normal"  
>TNC-2 ?

>

No, I do not believe so.

Hope this helps.

73,  
Greg  
WB6ZSU

---

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---

## 686. [aprssig] Re: Unhandled exception error

From: Bill Vodall <[wa7nwp@yahoo.com](mailto:wa7nwp@yahoo.com)>  
Date: Sun, 24 Dec 2000 11:45:16 -0800 (PST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-126132-2000.12.24-13.57.18--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The real answer, as mentioned a couple times, is aprsd on Linux.  
Any application with a sole task in life (iGating) will be more  
reliable than one huge application that tries to do everything.  
That scheme, one task per program, is one of the main advantages

of a Unix based OS.

A more useful suggestion for the reliability issue at hand would be to connect to the Messages only port (1314?) on APRSd (first.aprs.net) instead of one of the other ports that gives you everything in the world.

--- Jeff Brenton <jeffb@espi.com> wrote:  
> To minimize (but not eliminate) problems, you need to disallow  
> incoming data  
> from internet... but, I haven't played with WinAPRS to see if you can  
> allow  
> 3rd party traffic, while ignoring incoming internet traffic. You CAN  
> feed  
> traffic to internet in this configuration, though.  
>  
> Your only other alternative... APRS+SA.

That's another good option. Once configured to trim the various data to match your allocated memory space, APRSPLUS will normally run for weeks at a time. It's been a long time since I've seen it stop when just sitting and running. There was one gotcha last summer but that's been resolved and today it's very solid.

Bill - WA7NWP

---

Do You Yahoo!?  
Yahoo! Shopping - Thousands of Stores. Millions of Products.  
<http://shopping.yahoo.com/>

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---

## 687. [aprssig] Re: PAGERS

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Sun, 24 Dec 2000 15:22:10 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126144-2000.12.24-16.37.34--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 12:16 AM 12/24/00 -0500, Bob Bruninga blasted the following out into the ether:

><snip>  
>Actually, if you were tracking something anywhere in the country and just  
>wanted to know what city it was in, then you dont even need GPS. The  
>vicinity tracking feature of APRS would plot it on the map near its first  
>dig it hits...

Yeah, if you use a 1-hop path or else a TRACEn-N path. WIDEn-N doesn't show the first repeater the tracker hits, only the LAST one before your screen. At least, that's how the digis are set up ALL OVER New Mexico...

7 3  
Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

---  
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---

## 688. [aprssig] Re: Unhandled exception error

From: "Tim Cunningham" <tim\_cunningham@mindspring.com>  
Date: Sun, 24 Dec 2000 16:29:40 -0600

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126146-2000.12.24-16.43.58--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> Hi sig.  
> I'm leaving my city for vacations and I need my igate running without  
> problems for 2 weeks. I use winaprs (don't have linux). What I must to do  
to  
> to fix the problem with winaprs error?  
> Thanks.  
> Alex, PT2VYHF

We have been using "APRS+SA" on a IBM P166 with 96 MB RAM  
running under Windows 95B as a local Igate for 50 days of uptime.  
It only went down when a thunderstorm recently introduced a glitch  
in the system.

73's,

Tim - N8DEU  
Huntsville, Alabama

---

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---

## 689. [aprssi] APRS Big Event needed

From: Frank Ingle <73545.1210@compuserve.com>  
Date: Sun, 24 Dec 2000 20:08:38 -0500  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Cc: Bob Bruninga <wb4apr@amsat.org>  
Message-ID: <LYR842-126152-2000.12.24-19.22.23--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bob,

>Remember ANYONE, anywhere with any APRS tracker can be  
>tracked via SUNSAT.  
>  
>We can't wait another 4 years for the olympic torch, but it should be  
>something of general HAM radio interest. Does anyone know of any  
>  
>Off-shore boaters transiting the oceans?

Am I missing something here? Wouldn't this be a perfect  
way for Navy families to keep track of their loved ones  
while on deployment?

I realize that the locations of some ships are classified, but  
big task forces, especially those with Aircraft Carriers don't  
always try to keep a low profile.

How about if a MARS group got permission from their skipper  
to run a tracker while on deployment? The tactical call sign  
could be set to match the ship's hull number, and then any  
family member could go to findu and see "where Daddy is  
tonight."

Ships not having a MARS affiliate could ask for help from  
a local ham club in setting up a tracker while in port. It could  
be monitored by the Com Shack crew, and secured any  
time the Skipper felt the need for stealth. If the idea caught  
on, funding for trackers could come from the MWR budget.....  
I could see it get to be a status symbol to be the first in your  
squadron to have APRS.....

For once, the "NIH excuse" would work in our favor!

Lets see, do we know anybody who is heavily involved with  
APRS who has close ties to the Navy?..... :-)

-73-

Frank Ingle  
KG4CQK

---

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---

## 690. [aprssig] aprsd 2.14 and RedHat 7

From: Chris Devine <vistaeng@alltel.net>  
Date: Sun, 24 Dec 2000 20:42:14 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126155-2000.12.24-20.54.13--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hello all,

Has anyone tried aprsd 2.14 on RedHat 7? It seems to compile and run OK, but it seems to have networking trouble. None of the incoming ports are open, and although the IGATES seem to connect, there is no data transfer. This happens with a known good aprsd.conf file.

Is this a known problem?

TIA & 73,  
Chris  
KK5XF

---

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---

## 691. [aprssig] Re: Tracking Santa and Rudolph.

From: Tyler Griffiths <n7uwx@home.com>  
Date: Sun, 24 Dec 2000 19:58:46 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126158-2000.12.24-21.10.55--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

No official APRS tracker on Santa this year?

Tyler

Wes Johnston wrote:

> <http://www.noradsanta.org/> Just a little PSA from me to ya'll....  
> merry Christmas! Wes

--

Find out where I am...

<http://map.findu.com/n7uwx-13>

+.....+

|                                                                             |                                                            |
|-----------------------------------------------------------------------------|------------------------------------------------------------|
| Tyler Griffiths                                                             | Ham Radio                                                  |
|                                                                             |                                                            |
| <a href="http://www.geocities.com/n7uwx">http://www.geocities.com/n7uwx</a> | N7UWX                                                      |
|                                                                             |                                                            |
| n7uwx@home.com                                                              | President-Bridgerland Amateur Radio club                   |
|                                                                             |                                                            |
| (435) 750-9222 (pager)                                                      | =  <a href="http://www.w7ivm.org">http://www.w7ivm.org</a> |
|                                                                             |                                                            |
| tyler@sficorp.com                                                           | (o o) n7uwx@w7ivm.org                                      |
|                                                                             |                                                            |
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## 692. [aprssig] Re: APRS Big Event needed

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Sun, 24 Dec 2000 20:26:05 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126163-2000.12.24-21.39.45--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 08:08 PM 12/24/00 -0500, Frank Ingle blasted the following out into the ether:  
><snip>  
>Am I missing something here? Wouldn't this be a perfect  
>way for Navy families to keep track of their loved ones  
>while on deployment?  
>  
>I realize that the locations of some ships are classified, but  
>big task forces, especially those with Aircraft Carriers don't  
>always try to keep a low profile.

However, they DO keep their top speeds secret, so I'd expect MAJOR opposition and downright prohibition to putting a tracker on an aircraft carrier or any other warship.

Sorry to be a spoilsport,  
Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

---

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### 693. [aprssig] Re: PAGERS

From: K5QQ@aol.com  
Date: Sun, 24 Dec 2000 22:50:06 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126166-2000.12.24-22.02.21--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In a message dated 12/24/2000 3:34:24 PM Mountain Standard Time, KD5XB@AMSAT.ORG writes:

> WIDEn-N  
> doesn't show the first repeater the tracker hits, only the LAST one before  
> your screen. At least, that's how the digis are set up ALL OVER New Mexico..  
> .

Hi Earl

That's the way the UIDIGI function works in the Kantronics implementation.  
>From the KPC3+ manual; "...the UIDIGI call in the to-be-digipeated field will be replaced by MYCALL with the H bit set and the packet will be digipeated."

So it's this way everywhere Kantronics TNC's (At least KPC3's) are used as standalone digipeaters.

Catch you later

Jim K5QQ

---

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---

### 694. [aprssig] Re: PAGERS

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Sun, 24 Dec 2000 21:04:41 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126197-2000.12.25-04.03.11--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 10:50 PM 12/24/00 -0500, K5QQ@aol.com blasted the following out into the ether:

```
>In a message dated 12/24/2000 3:34:24 PM Mountain Standard Time,
>KD5XB@AMSAT.ORG writes:
> > WIDEn-N
> > doesn't show the first repeater the tracker hits, only the LAST one
> before
> > your screen. At least, that's how the digis are set up ALL OVER New
>Mexico..
> > .
>
>Hi Earl
>
>That's the way the UIDIGI function works in the Kantronics implementation.
> From the KPC3+ manual; "...the UIDIGI call in the to-be-digipeated field
> will
>be replaced by MYCALL with the H bit set and the packet will be digipeated."
>
>So it's this way everywhere Kantronics TNC's (At least KPC3's) are used as
>standalone digipeaters.
```

I agree, Jim, and that's why "vicinity plotting" no longer works -- any station that is "vicinity plotted" will show up near the digi you hear, whether they are next door or 1500 miles away...

7 3  
Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

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## 695. [aprssig] Findu news from K4HG

From: Stan Horzepa <[stanzepa@mail2.nai.net](mailto:stanzepa@mail2.nai.net)>  
Date: Mon, 25 Dec 2000 08:42:07 +0000  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-126207-2000.12.25-07.54.09--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Return-Path: <[sdimse@netrox.net](mailto:sdimse@netrox.net)>  
Received: from tapr.org ([204.17.217.20]) by lists.tapr.org with SMTP (Lyris Server version 3.0); Mon, 25 Dec 2000 04:22:20 -0600  
Received: from t-rex.netrox.net (odyssey.netrox.net [204.253.4.3]) by tapr.org (8.9.3/8.9.3/1.13) with ESMTP id EAA26785 for <[aprsnews@tapr.org](mailto:aprsnews@tapr.org)>; Mon, 25 Dec 2000 04:10:19 -0600 (CST)  
Received: from raptor.netrox.net (netrox.net [204.253.4.4]) by t-rex.netrox.net (8.11.0/8.11.0) with ESMTP id eBPA82H17129 for <[aprsnews@tapr.org](mailto:aprsnews@tapr.org)>; Mon, 25 Dec 2000 05:08:03 -0500 (EST)  
Received: from [63.237.254.193] (ppp-193.mialec-tc-5.netrox.net [63.237.254.193]) by raptor.netrox.net (8.11.0/8.11.0) with SMTP id eBPA9e302739 for <[aprsnews@tapr.org](mailto:aprsnews@tapr.org)>; Mon, 25 Dec 2000 05:09:40 -0500 (EST)  
Message-Id: <200012251009.eBPA9e302739@raptor.netrox.net>  
Subject: tracks available on findu  
Date: Mon, 25 Dec 2000 05:09:27 -0500  
x-sender: [sdimse@netrox.net](mailto:sdimse@netrox.net)  
x-mailer: Claris EMailer 2.0v3, January 22, 1998  
From: Steve Dimse <[k4hg@tapr.org](mailto:k4hg@tapr.org)>  
To: <[aprsnews@tapr.org](mailto:aprsnews@tapr.org)>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"

Those of you with nothing better to do Christmas Eve/Morning may have noted that findu was offline for 5 hours. I took advantage of a slow night at work to rebuild the position database to make the position queries efficient for the track cgis. The improvements were all I had hoped they would be.

As a result, the two track cgi's are now online, most likely permanently.

<http://www.findu.com/cgi-bin/track1.cgi?call=k4hg-8>

This one places a red dot on each position heard.

<http://www.findu.com/cgi-bin/track.cgi?call=k4hg-8>

This is the one most people are likely to use, it is the one displayed in Stan's article. However there is still a problem with this one. I build a URL request for MapBlast with each of the points for which a position was received. However, MapBlast tries to fit these points into a road route, often with unrealistic results. I'd like MapBlast to simply draw lines between the points, but so far I have been unable to figure out if this is possible. MapBlast releases no documentation on their map parameters, everything you see is reverse engineered. If anyone wants to dig in and try to find something that works, I'd love it...

Both tracks go back 2 days or 190 points, whichever is less. Most likely I will make the time to search backward a parameter, but the number of points is limited by MapBlast.

Steve K4HG

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## 696. [aprssig] Minimizing Unhandled erros

From: "Alex Pinheiro Machado Rodrigues" <[alex@bsbnet.com](mailto:alex@bsbnet.com)>  
Date: Mon, 25 Dec 2000 13:17:58 -0200  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-126208-2000.12.25-09.30.11--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi sig

I'm not sure if I'm right, but I think that if I conect to our aprsd aprs server ([aprs.cq.com.br](http://aprs.cq.com.br) 10151) my winaprs don't crash. I'll still testing. If I conect to aprs.net I get more unhandled errors. Is it possible or it's only a coincidence?  
Thanks and have all a great 2001

Alex, PT2VHF  
BRAZIL

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## 697. [aprssig] 1-wire weather stations and aprsd

From: Rich Mulvey <[mulveyr@iname.com](mailto:mulveyr@iname.com)>  
Date: Mon, 25 Dec 2000 11:40:54 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-126216-2000.12.25-10.58.37--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi all:

Has anyone ever tried to integrate any 1-wire weather stations with aprsd? I just picked up one ( a clone of the original Dallas Semiconductor 1-wire stations, from a Mexicam company ( <http://www.aag.com.mx/weather.html> ) that sells them for \$79.00 - I HIGHLY recommend them - I had the station shipped from Mexico to NY in a single day. The station itself is a good-quality unit that just needs some RTV on the joints for weatherproofing. )

I was thinking that it would be relatively easy to integrate the OWW for linux software ( <http://www.melhuishs.freemove.co.uk/simon/projects/oww/> ) with a little glue code to the aprsd software, and thus have a weather node that is substantially cheaper than the Davis systems, for example.

- Rich

--

Catapultam habeo. Nisi pecuniam omnem mihi dabis, ad caput tuum saxum

immane mittam.  
Where's Rich? <http://www.findu.com/cgi-bin/find.cgi?aa2ys>

---

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---

## 698. [aprssig] Re: PAGERS

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Mon, 25 Dec 2000 18:06:35 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-126235-2000.12.25-17.18.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Because of Kantronics backwards implementation, that is why we \*strongly\* recommend leaving UIFLOOD 30, NO ID. IF "NO-ID" is set, then the KPC3 will NOT screw up the path. SO if everyone then uses the path of WIDE,WIDEn-N, then their path will always arrive with the identify of the FIRST digipeater in the string.

This is the best way, because no matter where a packet comes from and even if it is only a MESSAGE or a STATUS, you can still tell what is his first digi...

bob

On Sun,  
24 Dec 2000 K5QQ@aol.com wrote:

> In a message dated 12/24/2000 3:34:24 PM Mountain Standard Time,  
> KD5XB@AMSAT.ORG writes:  
>  
> > WIDEn-N  
> > doesn't show the first repeater the tracker hits, only the LAST one before  
> > your screen. At least, that's how the digis are set up ALL OVER New  
> Mexico..  
> > .  
>  
> Hi Earl  
>  
> That's the way the UIDIGI function works in the Kantronics implementation.  
> >From the KPC3+ manual; "...the UIDIGI call in the to-be-digipeated field will  
> be replaced by MYCALL with the H bit set and the packet will be digipeated."  
>  
> So it's this way everywhere Kantronics TNC's (At least KPC3's) are used as  
> standalone digipeaters.  
>  
>  
> Catch you later  
>  
> Jim K5QQ  
>  
> ---  
> You are currently subscribed to aprssig as: [bruninga@usna.edu](mailto:bruninga@usna.edu)  
> To unsubscribe send a blank email to [leave-aprssig-842K@lists.tapr.org](mailto:leave-aprssig-842K@lists.tapr.org)  
> Questions regarding the SIG go to the SIG administrator: [wallou@tapr.org](mailto:wallou@tapr.org)  
>  
>

de WB4APR@amsat.org, Bob

See my APRS LIVE pages <http://web.usna.navy.mil/~bruninga/aprs.html>  
See APRS SATELLITES <http://web.usna.navy.mil/~bruninga/astars.html>  
See MIM/Mic-E/Mic-Lite <http://www.tapr.org/tapr/html/mic-e.html>

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Questions regarding the SIG go to the SIG administrator: [wallou@tapr.org](mailto:wallou@tapr.org)

---

## 699. [aprssig] Re: 10 Meter 300 baud APRS



From: Skip Allison <sallison@megsinet.net>  
Date: Mon, 25 Dec 2000 17:13:11 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126236-2000.12.25-17.26.22--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Michael Francoeur wrote:

>

> Is anyone doing 300 baud APRS on 10 meters? If so, what frequency?

It doesn't appear that there is a standard for 10M APRS. I've seen posts from various people of 10M APRS activity on the following frequencies:

28.151 LSB  
28.1877 LSB  
28.185 LSB  
28.195 LSB  
28.2948 LSB  
28.297 LSB

We really ought to try to standardize a freq. I don't have a preference. Anybody have and reasons why a particular freq should be used? I've had my RatShack rig on 28.297 LSB for a while and have never heard anything so I gave up. Should we use different freqs for 1200 and 300 or should we use the same? Maybe 28.185 for 300 and 28.297 for 1200???

Skip  
K9SA

---

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---

## 700. [aprssig] Installing Win95 on laptop WITHOUT a cdrom drive.

From: Qrpfvh@aol.com  
Date: Mon, 25 Dec 2000 20:34:38 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126250-2000.12.25-19.46.45--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

A few eeks ago I was asking about how to install Windows95 onto a older laptop without a cdrom drive, well over the weekend myself and N8UEV tried a experiment and it worked great.

First we took a 100meg ZIP disk and transfered the "Win95" directory onto the ZIP disk, next we setup the laptop to access the ZIP drive, then we transfered the "Win95" directory onto the hard drive of the laptop (79MB of data total). After ZIP to HD transfer was finished we de-installed the ZIP drive software as well as all other un-needed software down to just dos-based system and adjusted the autoexec.bat & config.sys files.

After a cold restart, went to the "Win95" directory and ran setup as usual. After about 45 minutes, we had a complete installation of Win95 onto my old 486SLC2/50 laptop which has since been running as the K8JWT APRS station without any trouble.

We did use the compact installation of Win95 since the laptop's HD is only 250MB.

Also saved the ZIP disk as we can use it over again to install on other computers.

Hope to get with N8UEV to setup a ZIP disk of the Precision Mapping directories and files needed to transfer over to the laptop so as to use there maps instead of DOS/TIGER maps.

MY PERSONAL RECOMENDATION: BUY A PARALLEL PORT ZIP DRIVE! ! !

Jacob Tennant, K8JWT

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## 701. [aprssig] Re: 10 Meter 300 baud APRS

From: "Michael Francoeur" <n1naf@mint.net>  
Date: Mon, 25 Dec 2000 20:56:50 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126252-2000.12.25-20.07.47--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I agree. The APRS sig should standardize and publish frequencies for each HF band. As for 10 meters, I think we should keep the 300 baud and 1200 baud packet on separate frequencies to minimize the QRM. Other than that, I'm open to what the group decides on what those frequencies should be.

- Mike/N1NAF

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## 702. [aprssig] Re: 10 Meter 300 baud APRS

From: Wally Foster <wfoster@hsc.usc.edu>  
Date: Mon, 25 Dec 2000 18:00:54 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126253-2000.12.25-20.14.34--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

A better reason for keeping separate frequencies is that 300 and 1200 are NOT compatible like 1220 and 9k6..

---

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---

## 703. [aprssig] APRS Big Event needed

From: Frank Ingle <73545.1210@compuserve.com>  
Date: Tue, 26 Dec 2000 11:51:01 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126323-2000.12.26-11.04.15--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

----- Bob Bruinga said:

> >We can't wait another 4 years for the olympic tounrch, but it should be  
> >something of general HAM radio interst. Does anyone know of any  
> >  
> >Off-shore boaters transiting the oceans?

----- Frank Ingle replied:

>  
> Am I missing something here? Wouldn't this be a perfect  
> way for Navy families to keep track of their loved ones  
> while on deployment?  
>

Thanks to all who reminded me that operational security of US Navy ships is not taken lightly, making full-time Satellite tracking a bad idea.

Less than an hour after I sent the suggestion, it occurred to me that most skippers I know would be very paranoid about trackers transmitting when they weren't supposed to, and would probably veto the whole idea in a heartbeat.

I'm still not convinced that the whole idea is bad, just the proposed method of implementation. There are still some cases where ships want their location to be known for PR value. Some examples might be hospital ships, ships on goodwill tours, ships returning to home port, ships in friendly ports with crew on liberty, ships involved in widely publicized rescue operations etc.

Most of the other devices which divulge a ship's position or other data are under the active, positive control of the skipper - the horn, signal flags, navigation and running lights, flares, RF emissions, Wx observations, targeting radar, MOVREPS, deployment schedules, etc. If a skipper is going to be comfortable with a tracker, he would

need to be confident that it was under his control, too.

What if we set up a tracker that would transmit for 6 hours (enough for only one satellite pass - or about 4 fixes at 30 min intervals in the satellite window) after a button was pushed?

Additional safeguards could include software to inhibit a transmission if the ship's speed worked out to greater than 5 knots. (Kind of like the anti-scud limit). This would prevent fixes while underway, except when being piloted into port, but allow fixes when at anchor or tied up. (I'm thinking this could be done with a SW mod to a Tiny Track.)

The ultimate decision of whether to beacon a fix or not would rest on the skipper's shoulder, (where it should) but he would be assured that 1) there would be no fix unless he (or his designee) pushed the button, 2) the tracker would provide only 1 set of fixes every time the button was pushed, and 3) It could not accidentally provide fixes while underway, 4) the button would not be pushed unless he was convinced there was significant PR value for the whole world to know where the ship was.

I suspect many will think this is still a bad idea, but before you condemn it, how about we wait and see whether there is anyone in the Navy who thinks it could be useful? If not, it will never happen anyway.

73

Frank Ingle

---

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---

## 704. [aprssig] Re: APRS Big Event needed.

From: "Gregg G. Wonderly" <gregg@skymaster.c2-tech.com>  
Date: Tue, 26 Dec 2000 10:49:47 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126325-2000.12.26-11.08.18--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

>I'ts getting kinda boring watching my car sitting in the driveway...:-(  
>  
>No one's listening because no one is transmitting... no one is  
>transmitting because no one is listening...

There are too many parameters in typical APRS setups for people to get happy about changing them so that they can use SUNSAT I believe. It is time for APRS implementations to take a step up and provide much more powerful configuration management systems that would allow parameters to change based on anything that the APRS application can detect such as time, speed (hamhud does this), location, recent digi's heard etc. Hamhud's smart beaconing (I have this in JeAPRS too) only lets you change beacon time frequencies. What if you could change the path, the from call, the icon, the frequency of status packets etc all based on the timing of external events. Profiles should be available and easily selectable so that once a configuration works, the time spent making it work is not lost due to needing a different config.

People get a lot of flack from other operators, it seems, when they are not operating correctly. We have "memory channels" in the radios now so that CTCSS/PL tone setups, TX/RX offsets and other operating parameters are preserved. It seems like APRS needs to take the step and allow "memory channels" for operational setups which would allow us to easily select "SUNSAT", "FISHING", "RIDING", "TORCH" etc from a list of preestablished configs and thus be confident that we can operate correctly and effectively.

...Now I've just created more work to do in JeAPRS before I get to beta stage...sigh...

-----

gregg@c2-tech.com (C2 Technologies Inc)

---

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## 705. [aprssig] Re: 1-wire weather stations and aprsd

From: Bruno Quesnel <quesnelb@ve2.ele.etsmtl.ca>  
Date: Tue, 26 Dec 2000 12:02:18 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126326-2000.12.26-11.15.07--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi all and Rich,

I'm not familiar with the way to plug the OWW into the computer, but one thing that might be easy to implement would be through the UDP code. No patch needed to the software for now. The only trick would be to get the data from the proper interface (from the OWW) then use a simple perl script to format the data to your server. Transmit the data both on RF and Internet or to your convenience...

A small script is also included in the standard distribution of APRSD for UDP communication that will enable you to send to the server....

Rich Mulvey wrote:

```
> Hi all:
>
> Has anyone ever tried to integrate any 1-wire weather stations with aprsd?
> I just picked up one ( a clone of the original Dallas Semiconductor 1-wire
> stations, from a Mexican company ( http://www.aag.com.mx/weather.html ) that
> sells them for $79.00 - I HIGHLY recommend them - I had the station shipped
> from Mexico to NY in a single day. The station itself is a good-quality unit
> that just needs some RTV on the joints for weatherproofing. )
>
> I was thinking that it would be relatively easy to integrate the OWW for
> linux software ( http://www.melhuishs.freemove.co.uk/simon/projects/oww/ )
> with a little glue code to the aprsd software, and thus have a weather node
> that is substantially cheaper than the Davis systems, for example.
>
> - Rich
>
> --
> Catapultam habeo. Nisi pecuniam omnem mihi dabis, ad caput tuum saxum
> immane mittam.
> Where's Rich? http://www.findu.com/cgi-bin/find.cgi?aa2ys
>
> ---
> You are currently subscribed to aprssig as: quesnelb@ve2.ele.etsmtl.ca
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> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org
```

```
--
Bruno Quesnel                               va2bmg@videotron.ca
Genie Electrique                           quesnelb@ve2.ele.etsmtl.ca
Electrical Engineering                     queb1604@ele.etsmtl.ca
Ecole de Technologie Superieure           VA2 BMG
```

```
---
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```

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## 706. [aprssig] Re: aprsd 2.14 and RedHat 7

From: Chris Devine <vistaeng@alltel.net>  
Date: Tue, 26 Dec 2000 11:13:54 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126328-2000.12.26-11.26.01--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Thanks to everyone for the suggestions. I installed all the updates, recompiled, and all is well.

Thanks and 73,  
Chris

Bruno Quesnel wrote:

> I think this problem is known. I Think i've seen others having the same  
 > problem but didn't find any solution to the problem....  
 >  
 > Chris Devine wrote:  
 >  
 > > Hello all,  
 > >  
 > > Has anyone tried aprsd 2.14 on RedHat 7? It seems to compile and run OK,  
 > > but it seems to have networking trouble. None of the incoming ports are  
 > > open, and although the IGATES seem to connect, there is no data  
 > > transfer. This happens with a known good aprsd.conf file.  
 > >  
 > > Is this a known problem?  
 > >  
 > > TIA & 73,  
 > > Chris  
 > > KK5XF  
 > >  
 > >  
 > --  
 > Bruno Quesnel va2bm@videotron.ca  
 > Genie Electrique quesnelb@ve2.ele.etsmtl.ca  
 > Electrical Engineering queb1604@ele.etsmtl.ca  
 > Ecole de Technologie Superieure VA2 BMG

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## 707. [aprssig] Re: Help for KB8ROP

From: "Bruce Bennett" <bruts@alltel.net>  
 Date: Tue, 26 Dec 2000 12:10:34  
 To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
 Message-ID: <LYR842-126336-2000.12.26-12.22.43--lyris.aprssig#tapr.org@lists.tapr.org>  
 Rendered body type: text/plain

On 12/18/00, "Qrpvhf@aol.com" wrote:

> There is a guy near Cleveland, Oh area callsign KB8ROP who is trying to setup  
 > a weather station under WinAPRS that could probably use some help.  
 >  
 > He has shown up twice today on our local screens as a weather station. First  
 > his position was near Waynesburg, PA then it moved to near Kingwood, WV on the  
 > WV/MD border.  
 >  
 > Jacob Tennant, K8JWT

Some interesting error occurred somewhere along the digipeat path (or more  
 locally in my WinAPRS setup). A peek at findu.com and a close check up of  
 my station showed no positional problems though.

I'd appreciate any reports of anomalies to bruts@alltel.net, and I'll keep  
 monitoring. My APRS station has been on the air for a number of years, but  
 recently I did increase power & digi-path. WX has been on for about eight  
 months.

Bruce Bennett, KB8ROP

---

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## 708. [aprssig] Re: Installing Win95 on laptop WITHOUT a cdrom drive.

From: Robert Donnell <kd7nm@pugetsound.net>  
 Date: Tue, 26 Dec 2000 10:59:32 -0800  
 To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
 Message-ID: <LYR842-126337-2000.12.26-13.11.46--lyris.aprssig#tapr.org@lists.tapr.org>  
 Rendered body type: text/plain

Hmmm -I must have missed your earlier post. Another way to accomplish this  
 (at about the same speed) would be to use LapLink or another equivalent to  
 transfer the Win95 directory from any CD equipped desktop over to the  
 laptop. Even JNOS on the laptop could be used as an FTP server, and the  
 Win95 FTP client could be used - although that client is about the least  
 convenient one that exists.

At 08:34 PM 12/25/2000 -0500, Qrpvhf@aol.com wrote:  
>A few eeks ago I was asking about how to install Windows95 onto a older  
>laptop without a cdrom drive

Another benefit of having the Win95 directory on board is that if you  
change your configuration in a way that requests the "CD" it will  
automagically find what it needs in that Win95 folder - so don't delete it!

73, and I hope everyone had an enjoyable Christmas.

--  
Bob Donnell, KD7NM            Ph:206-542-7661            kd7nm@pugetsound.net  
                                 Western Washington Amateur Radio IP Address Coordinator  
----- http://wetnet.wa.com/~kd7nm -----  
-- For recent vehicle location try: http://map.findu.com/kd7nm-9 -----  
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## 709. [aprssig] Re: Installing Win95 on laptop WITHOUT a cdrom drive.

From: Qrpvhf@aol.com  
Date: Tue, 26 Dec 2000 14:19:31 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126340-2000.12.26-13.31.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In a message dated 12/26/00 1:59:58 PM Eastern Standard Time,  
kd7nm@pugetsound.net writes:

> Another way to accomplish this  
> (at about the same speed) would be to use LapLink or another equivalent to  
> transfer the Win95 directory from any CD equipped desktop over to the  
> laptop.

No way as fast, after computing the LapLink transfer at a max speed of  
19,200bps, it worked out to a transfer time of about 16hours! The ZIP to HD  
transfer took 15 minutes.

Jacob Tennant,K8JWT

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## 710. [aprssig] Re: Installing Win95 on laptop WITHOUT a cdrom drive.

From: "Ray J. Vaughan" <ray@rayvaughan.com>  
Date: Tue, 26 Dec 2000 14:29:07 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126341-2000.12.26-13.41.20--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 02:19 PM 12/26/00 -0500, you wrote:

>In a message dated 12/26/00 1:59:58 PM Eastern Standard Time,  
>kd7nm@pugetsound.net writes:

>  
> > Another way to accomplish this  
> > (at about the same speed) would be to use LapLink or another equivalent to  
> > transfer the Win95 directory from any CD equipped desktop over to the  
> > laptop.  
>

>No way as fast, after computing the LapLink transfer at a max speed of  
>19,200bps, it worked out to a transfer time of about 16hours! The ZIP to HD  
>transfer took 15 minutes.

Yet another way I've seen it done...

If the laptop and a donor computer both have network cards, it's possible to install a basic network  
protocol from a floppy, then do a DOS copy via the network. You should be able to get a few MB/s that  
way. I've done it this way, but it's been so long, I've forgotten what needs to be on the floppy. If  
I remember right, there's even a program in NT that makes the floppy for you. Using this method,  
network admins can install the whole system via the network.

Ray J. Vaughan, MS, CBTE, CERT  
KD4BBM PG-7-15266  
<http://www.rayvaughan.com/>  
[ray@rayvaughan.com](mailto:ray@rayvaughan.com)  
[ray@2-way.com](mailto:ray@2-way.com)

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---

## 711. [aprssig] Re: 10 Meter 300 baud APRS

From: Bill Vodall <[wa7nwp@yahoo.com](mailto:wa7nwp@yahoo.com)>  
Date: Tue, 26 Dec 2000 11:43:17 -0800 (PST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-126342-2000.12.26-13.55.26--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

--- Skip Allison <[sallison@megsinet.net](mailto:sallison@megsinet.net)> wrote:

> Michael Francoeur wrote:  
> > Is anyone doing 300 baud APRS on 10 meters? If so, what frequency?  
> It doesn't appear that there is a standard for 10M APRS. I've seen  
> posts from various people of 10M APRS activity on the following  
> frequencies:  
> 28.151 LSB  
> We really ought to try to standardize a freq. I don't have a  
> preference. Anybody have and reasons why a particular freq should be  
> used?

I'm planning on using 28.151 to start with when I get the newly  
acquired KAM hooked to the HR2510 and on the Digi\_NED server.

Two reasons:

It's similar to 10.151.

It's in the middle of band segment where unattended digital  
operation is allowed: 28.120-28.189 MHz

Bill V.

---

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Yahoo! Shopping - Thousands of Stores. Millions of Products.  
<http://shopping.yahoo.com/>

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---

## 712. [aprssig] Re: Installing Win95 on laptop WITHOUT a cdrom drive.

From: Bob Nielsen <[nielsen@oz.net](mailto:nielsen@oz.net)>  
Date: Tue, 26 Dec 2000 12:15:55 -0800  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-126344-2000.12.26-14.28.02--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Tue, Dec 26, 2000 at 02:19:31PM -0500, [Qrpvhf@aol.com](mailto:Qrpvhf@aol.com) wrote:

> In a message dated 12/26/00 1:59:58 PM Eastern Standard Time,  
> [kd7nm@pugetsound.net](mailto:kd7nm@pugetsound.net) writes:  
>  
> > Another way to accomplish this  
> > (at about the same speed) would be to use LapLink or another equivalent to  
> > transfer the Win95 directory from any CD equipped desktop over to the  
> > laptop.  
>  
> No way as fast, after computing the LapLink transfer at a max speed of  
> 19,200bps, it worked out to a transfer time of about 16hours! The ZIP to HD  
> transfer took 15 minutes.

I haven't used LapLink (although I once used the PCTools equivalent)  
but would expect that it would be able to transfer at much higher  
speeds than 19,200. Buffered serial ports are useable to 115,200 bps  
and parallel will do quite a bit better than that.

Bob

--

Bob Nielsen, N7XY  
Bainbridge Island, WA

nielsen@oz.net  
<http://www.oz.net/~nielsen>

---

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Questions regarding the SIG go to the SIG administrator: [wallou@tapr.org](mailto:wallou@tapr.org)

---

### 713. [aprssig] Re: Installing Win95 on laptop WITHOUT a cdrom drive.

From: "Mike Yeteko" <[myetsko@insydesw.com](mailto:myetsko@insydesw.com)>  
Date: Tue, 26 Dec 2000 15:45:52 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-126345-2000.12.26-15.00.09--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

First off, LapLink doesn't have to work at 19,200. Laplink, on machines OTHER than certain specific models by a certain 3-letter company, links at 115K. Ie, a divisor of '1' in the Baud Rate Divisor of the standard UART. (One machine has a 'bug' in their ASIC, and if you set a divisor of '1', it will latch up and burn... But it's an old 386.)

HOWEVER, if you scan the fleas and computer marts, you will see people selling 'standard' LapLink cables. For serial and for parallel hookups. The parallel hookup is MUCH faster than you can imagine if you are used to serial LapLink, even serial at 115K. The parallel link isn't 8-bit, as it was done in the days of the original parallel port, but it used two 'one way' 5-bit links, and one 4 or 5 bit parallel bus, I can't remember for sure. But I think it comes out to about 20us per byte.

AND, you don't have to use LapLink. Win95 has this think built in called 'internlink' that lets you mount a machines drive over a LapLink cable, and you can just copy the stuff over the parallel LapLink cable.

I think I picked up my last LapLink cable set for \$6, and that included BOTH a serial (with a 9 and 25 pin EACH end) AND a separate 25-25 pin parallel cable.

In my case, before I bought a 'manufactured' LapLink cable, I used to use a 25-pin ribbon cable with both a MALE and a FEMALE on EACH end, that way I could hook anything to anything. Yes, it was 'straight through'. Then I took a DB-25 shell and put a male and a female on it. And cross-wired inside the shell to make it a Laplink/Interlink cable.

If you can't find the info to make a parallel crossover cable send me email and I will dig it out. I'd include it as part of this message, but I got a new machine and don't have that file on this one.

Mike

----- Original Message -----

In a message dated 12/26/00 1:59:58 PM Eastern Standard Time, [kd7nm@pugetsound.net](mailto:kd7nm@pugetsound.net) writes:

>

>> Another way to accomplish this  
>> (at about the same speed) would be to use LapLink or another equivalent to  
>> transfer the Win95 directory from any CD equipped desktop over to the  
>> laptop.

>>

>> No way as fast, after computing the LapLink transfer at a max speed of  
>> 19,200bps, it worked out to a transfer time of about 16hours! The ZIP to HD  
>> transfer took 15 minutes.



:>  
:>  
:> Jacob Tennant,K8JWT

---

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---

## 714. [aprssig] Re: DR-135

From: "Henk de Groot" <henk.de.groot@hetnet.nl>  
Date: Sun, 24 Dec 2000 17:21:22 +0100  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126346-2000.12.26-15.20.04--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hello Jeff,

> I find it hard to believe that TASC0 made it. In the sense they  
> have been making TNC's for some time, and there are so many oversights  
> that should be second nature to any experienced TNC designer.  
>  
> Who said TASC0 made it?

The TH-D7 said so, when I set it to TNC it starts with:

-----  
bbRAM loaded with defaults

TASC0 Radio Modem  
AX.25 Level 2 Version 2.0  
Release 09/15/99 2Chip ver 2.00  
Checksum \$CF  
cmd:MY PE1DNN-7  
MYCALL was NOCALL  
cmd:PORT0 \$0000  
PORTOUT was \$0000  
cmd:  
-----

On the web, <http://www.radiohound.com/> there is a mod with the famous green-wire. There are two pictures of the inside of the TH-D7(A/E) where the TASC0 chip is clearly visible.

So there is no doubt where Kenwood did its shopping. Nevertheless I do not know if TASC0 also made the firmware or that Kenwood did that part. Maybe TASC0 only delivered the modem DSP and Kenwood did the rest.

Kind regards,

Henk.

---

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## 715. [aprssig] APRSD questions

From: Qrpvhf@aol.com  
Date: Tue, 26 Dec 2000 18:37:57 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126356-2000.12.26-17.50.07--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I have 2 questions as to the setup of APRSD configuration file settings.

1. What command is the control of how rf2internet is handled. ie... messages going from internet to rf are passed OK, acks from rf to internet as well as rf messages to the internet are not going thru.

2. As to the NWS-???? messages, is there anyway to filter them as to only

certain nws offices. At the present time we are passing all NWS-WARN & NWS-WATCH messages from internet to rf. However the trustee of the stations callsign does not want this extra traffic going out.

Jacob Tennant,K8JWT

---

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---

## 716. [aprssig] Re: [APRSSIG] Another BIG APRS Event...

From: RMckni8527@aol.com  
Date: Tue, 26 Dec 2000 22:15:44 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126370-2000.12.26-21.28.13--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In a message dated 12/24/00 5:14:36 PM Pacific Standard Time,  
73545.1210@compuserve.com writes:

>Am I missing something here? Wouldn't this be a perfect  
>way for Navy families to keep track of their loved ones  
>while on deployment?

This is all real quaint, but to be very blunt, I was recently deployed underway for 2 months and set up an absolutely awesome MARS station. Absolutely no one on board gave two hoots about MARS, especially the skipper. Even E-2's didn't bat an eye about spending \$200+ a month to use the Inmarsat (SailorPhone). I even got a direct path to the USCG Academy one night, and with all the "O" grads on board, NO ONE even asked about making a phone patch when I had it piped on the ship's PA system!! The skipper made it very clear that the MARS system was in direct conflict with proving that our new Inmarsat technology was vital to morale, even after passing 200+ free HF e-mails. Satellite is sexy and makes the command look good. HF seems like a bain of poor leadership. That's the facts. Maybe an unattended satellite transponder will work for a few landlubbers, but at least the USCG discourages anything that seems to question the millions in technology they are deploying. And please don't claim that satellite time is too expensive - the paltry USCG now has conceded that \$30K/month/boat is REASONABLE - and gives each crewmember a daily morale allocation. The Navy recently GAVE us a 64K sat channel 24/7 because it was unused, so they have the capacity to waste. HF e-mail and phone patches were free, but the command refused to support it because, if the MARS guy went away, they might have to train a real Radioman and allocate crew resources once it became essential for morale.

Modern world. We are expendable! Internet and satellite time is too easy.

Sad in Seattle,  
Ray - WB3ABN  
Kingston, WA

P.S. OKAY, Stan, I KNOW it's in HTML, but I'm not installing another program just to satisfy Lyris and the SIG, when I have no control over AOL 6. Maybe I'll go back to ver 5...

---

## 717. [aprssig] Re: [APRSSIG] Another BIG APRS Event...

From: Bob Nielsen <nielsen@oz.net>  
Date: Tue, 26 Dec 2000 19:33:20 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126373-2000.12.26-21.45.30--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Tue, Dec 26, 2000 at 10:15:44PM -0500, RMckni8527@aol.com wrote:

>

> P.S. OKAY, Stan, I KNOW it's in HTML, but I'm not installing another program  
> just to satisfy Lyris and the SIG, when I have no control over AOL 6. Maybe  
> I'll go back to ver 5...

Doesn't look like html to me!

Bob

--

Bob Nielsen, N7XY  
Bainbridge Island, WA

nielsen@oz.net  
<http://www.oz.net/~nielsen>

---

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---

## 718. [aprssig] Re: [APRSSIG] Another BIG APRS Event...

From: B Keyport <[bkeyport@qwest.net](mailto:bkeyport@qwest.net)>  
Date: Tue, 26 Dec 2000 19:44:15 -0800  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: [aprssig@tapr.org](mailto:aprssig@tapr.org)  
Message-ID: <[LYR842-126374-2000.12.26-21.56.32--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-126374-2000.12.26-21.56.32--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

>On Tue, Dec 26, 2000 at 10:15:44PM -0500, RMckni8527@aol.com wrote:  
>>  
>> P.S. OKAY, Stan, I KNOW it's in HTML, but I'm not installing another program  
>> just to satisfy Lyris and the SIG, when I have no control over AOL 6. Maybe  
>> I'll go back to ver 5...  
>  
>Doesn't look like html to me!

It's HTML. It reduced the message size down so far that it's impossible for me and others that have trouble reading computer screens for whatever reason.

Lyris needs to either reject all mail with known HTML tags, or strip 'em, course, if I had my way, HTML mail would be illegal, enforced by the ISPs at the receiving end, but, according to enough people around here, I'm a loon, so.... :)

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## 719. [aprssig] TigerTrak TM-1 and Etrex

From: Michael Martens <[kb9vbr@yahoo.com](mailto:kb9vbr@yahoo.com)>  
Date: Tue, 26 Dec 2000 19:44:22 -0800 (PST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-126376-2000.12.26-21.56.34--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-126376-2000.12.26-21.56.34--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Does anyone have any experience getting the Tigertronics Tigertrak TM-1 and the Garmin Etrex to work together? I connected the TM-1 to my radio and I am able to send packets via the TM-1's test mode. But when I connect the Etrex, the 'LOCK' light on the TM-1 blinks instead of staying lit.

I have the Etrex set to NMEA mode, it is correctly outputting at 4800 baud. I verified that by connecting the Etrex to the computer. My patch cable tests out ok and I think I have the TM-1 correctly configured via the software program.

Any tips would be greatly appreciated.

Thank you.  
Michael  
KB9VBR

Here is a sample of the NMEA string the Etrex is producing, if this helps anything out.  
\$GPRMC,031258,V,3607.2005,N,11505.4845,W,17.4,289.6,271200,13.1,E,S\*0B  
\$GPRMB,V,0.00,L,,004,3608.250,N,11509.122,W,3.121,289.7,17.4,V,S\*48  
\$GPGGA,031258,3607.2005,N,11505.4845,W,8.08,2.0,547.6,M,-25.2,M,,\*7E  
\$GPGSA,A,3,04,05,06,09,10,17,24,30,,,,,2.0,3.0\*11  
\$GPGSV,2,1,08,04,14,049,40,05,70,204,50,06,32,301,44,09,06,199,34\*77  
\$GPGSV,2,2,08,10,51,131,48,17,10,234,38,24,49,039,47,30,62,293,49\*72  
\$GPGLL,3607.2005,N,11505.4845,W,031258,V,S\*55  
\$GPBOD,289.7,T,276.6,M,004,\*72  
\$PGRME,15.0,M,22.5,M,15.0,M\*1B  
\$PGRMZ,1797,f,3\*23  
\$GPRTE,1,1,c,\*37

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---

## 720. [aprssid] second.aprs.net Service Interruption

From: Greg Noneman <[greg@clubnet.net](mailto:greg@clubnet.net)>  
Date: Tue, 26 Dec 2000 21:07:21 -0800  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-126381-2000.12.26-23.20.26--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-126381-2000.12.26-23.20.26--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

The secondary APRServe server (second.aprs.net [or social.aprs.net]) will be out of service for several hours on Wednesday (12-27-00). The server is being moved to a new site which should provide increased bandwidth capability. APRS internet loading has increased significantly over the last year and is severely taxing the existing T1 connection.

I expect the server to go down at approximately 1800 UTC on Wednesday. Service should be restored several hours later, but may be somewhat intermittent for the first few hours due to connectivity testing.

Southern California users can also expect the local 24/7 IGate (N6EX-3) to be out of service during the same time period. Coverage area of the new location will be significantly different; however, it should still provide excellent gating connectivity for the greater Southern California area.

Sorry for any inconvenience.

Greg  
WB6ZSU

---

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---

## 721. [aprssid] sunsat

From: Kevin Deckert <[kdeckert@wellsgray.net](mailto:kdeckert@wellsgray.net)>  
Date: Mon, 25 Dec 2000 13:57:30 -0800  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-126395-2000.12.27-00.18.21--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-126395-2000.12.27-00.18.21--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

re frank .....aprs parameters...for changing parameters and paths etc. I am working with the "TINYTRACK" unit...which has a one button that you press and give you 10 different profiles with path and beacon rate and icon settings.....I am going to work with sunsat setting hopefully tomorrow!!! let you know how I make out...

ve7whk..N51 47...W119 19  
[Attachment: kdeckert.vcf; text/x-vcard; 174 bytes]

---

## 722. [aprssid] UIFlood NOID (was RE: PAGERS)

From: "Cap Pennell" <[cap@cruzio.com](mailto:cap@cruzio.com)>  
Date: Wed, 27 Dec 2000 02:27:34 -0800  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Cc: <[digiowners@lounet.com](mailto:digiowners@lounet.com)>  
Message-ID: <[LYR842-126406-2000.12.27-04.40.23--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-126406-2000.12.27-04.40.23--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Yes. The command syntax in a Kantronics digi is

UIFlood WIDE,30,NOID

This UIFlood command is the setting that makes a digi a WIDEn-N (and justifies the "N" in the green star icon). I sure wish more digis used this NOID setting (instead of UIFlood WIDE,30,ID). Using NOID preserves much more information about the network and that information allows a user to setup more efficient paths. MOST of the digis in the Western US are now using NOID. Those few that aren't using NOID are obliterating path information (about the originating digi) in WIDEn-N packets by replacing it with their own digi's call. I guess it's an ego thing. Or maybe it's just that they setup their digi years ago and

haven't given any consideration to its impact on the network since then. :(  
73, Cap KE6AFE  
P.S. Now if all the digis set NOID and all the users set their path to  
"LOCALDIGI", WIDEN-N (like W6CX-3, WIDE1-1 for example, or RELAY, WIDE1-1 for  
mobiles) then we'd really be in business!

> -----Original Message-----  
> From: Bob Bruninga WB4APR <wb4apr@amsat.org>  
> Sent: Monday, December 25, 2000 3:07 PM  
> To: TAPR APRS Special Interest Group  
> Subject: [aprssig] Re: PAGERS  
>  
>  
> Because of Kantronics backwards implementation, that is why we \*strongly\*  
> recommend leaving UIFLOOD 30, NO ID. IF "NO-ID" is set, then the KPC3  
> will NOT screw up the path. SO if everyone then uses the path of  
> WIDE, WIDEN-N, then their path will always arrive with the identify of the  
> FIRST digipeater in the string.  
>  
> This is the best way, because no matter where a packet comes from and even  
> if it is only a MESSAGE or a STATUS, you can still tell what is his first  
> digi...  
>  
> bob  
> <snip>  
> de WB4APR@amsat.org, Bob  
>  
> See my APRS LIVE pages <http://web.usna.navy.mil/~bruninga/aprs.html>  
> See APRS SATELLITES <http://web.usna.navy.mil/~bruninga/astars.html>  
> See MIM/Mic-E/Mic-Lite <http://www.tapr.org/tapr/html/mic-e.html>

Cap Pennell KE6AFE  
Santa Cruz, CA 95062-1002  
3658.93N/12200.91W CM86xx  
<http://members.cruzio.com/~cap>

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---

## 723. [aprssig] Re: TigerTrak TM-1 and Etrex

From: Michael Martens <kb9vbr@yahoo.com>  
Date: Wed, 27 Dec 2000 06:06:26 -0800 (PST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-126411-2000.12.27-08.18.36--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I was indoors when I connected the Etrex to the TM-1,  
so I was using the Demo mode. That may be why the  
GPRMC sentence may not be valid. Its pretty cold up  
here in Wisconsin, so I didn't feel like taking it  
outside. I'll try going outside this afternoon.

By the way, what exactly does it mean when the GPS is  
'Locked', does that mean it is synchronised with one  
or more satellite, or what?

Thanks,  
Michael  
KB9VBR

--- Bill Diaz <[billdiaz@megsinet.net](mailto:billdiaz@megsinet.net)> wrote:  
> Mike,  
> Not familiar with the TM-1 but some trackers will  
> not accept position data if  
> the GPS does not have a lock.  
>  
> The \$GPRMC sentence you attached is not valid as  
> indicated by \$GPRMC,031258,V,  
> When locked it would be \$GPRMC,031258,A,  
>  
> I have an etrex and found it to be a nice little  
> GPS. However, I can not get a  
> lock inside my house with any GPS I own. Etrex has  
> a demo mode. Haven't tried  
> it, but it may output NMEA that could be used for  
> testing indoors. Don't have

> the etrex cable yet, but will be getting one for  
> hooking up to my D7 before long.  
>  
> Bill KC9XG  
>  
> On Tuesday, December 26, 2000 9:44 PM, Michael  
> Martens [SMTP:kb9vbr@yahoo.com]  
> wrote:  
> > Does anyone have any experience getting the  
> > Tigertronics Tigertrak TM-1 and the Garmin Etrex  
> > to  
> > work together? I connected the TM-1 to my radio  
> > and I  
> > am able to send packets via the TM-1's test mode.  
> > But  
> > when I connect the Etrex, the 'LOCK' light on  
the  
> TM-1  
> > blinks instead of staying lit.  
> >  
> > I have the Etrex set to NMEA mode, it is correctly  
> > outputting at 4800 baud. I verified that by  
> > connecting  
> > > the Etrex to the computer. My patch cable tests  
> > out ok  
> > > and I think I have the TM-1 correctly configured  
> > via  
> > the software program.  
> >  
> > Any tips would be greatly appreciated.  
> >  
> > Thank you.  
> > Michael  
> > KB9VBR

---

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---

## 724. [aprssig] Weather Station

From: Paul Prosser <[prosserp@Sowega.net](mailto:prosserp@Sowega.net)>  
Date: Wed, 27 Dec 2000 09:21:59 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-126415-2000.12.27-08.34.22--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I would like to know which weather station hardware interfaces directly to a KPC3+ directly and or the easiest. I have an APRS Digi and want to beacon the current conditions for the weather bureau to receive.  
73, Paul WA4RWS

---

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---

## 725. [aprssig] Re: Weather Station

From: "Jeff Brenton" <[jeffb@espi.com](mailto:jeffb@espi.com)>  
Date: Wed, 27 Dec 2000 08:46:07 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-126416-2000.12.27-08.58.19--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> Which WX station to use

The only weather stations on the market that can be directly interfaced to a TNC for APRS use are those made by Peet Brothers. The reasons are several - Peet stations SEND information, rather than waiting for it to be queried, they do it by putting all information into a single "packet transmission" that can be looked for using the TNC's existing GPS string information OR directly into a TNC in CONVerse mode, and they're the only ones in

wide-enough use to have "all" APRS programs adopt them as an unofficial over-the-air format.

That does not mean you're tied to Peet, though - there are several efforts underway to use PIC chips to pre-process the information from a variety of weather stations into APRS-standard WX packets, and broadcast those. The PIC-E, for example.

But, if you do not want to deal with external hardware (other than the weather station itself, of course B-), you're in the market for a Peet U2000....

Jeff Brenton, Amateur Radio call sign KA9VNV  
http://espi.com  
Questionable web page: http://dididahdahdidit.com  
That strange feeling that you've never  
done this before: http://uvajed.espi.com

"Modern Liberalism: The embodiment of an irrational fear of letting other people run their own lives."

---

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## 726. [aprssig] Re: [APRSSIG] Another BIG APRS Event...

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Wed, 27 Dec 2000 06:51:02 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126417-2000.12.27-08.59.15--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 07:33 PM 12/26/00 -0800, Bob Nielsen blasted the following out into the ether:

>On Tue, Dec 26, 2000 at 10:15:44PM -0500, RMckni8527@aol.com wrote:  
> >  
> > P.S. OKAY, Stan, I KNOW it's in HTML, but I'm not installing another  
> program  
> > just to satisfy Lyris and the SIG, when I have no control over AOL  
> 6. Maybe  
> > I'll go back to ver 5...  
>  
>Doesn't look like html to me!  
>  
>Bob

Me, either. Plain text is all \*I\* see, with Eudora Pro. Eudora Pro always shows me the different fonts, colors, etc., but Ray's mail has none.

7 3  
Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

---

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---

## 727. [aprssig] NOID

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Wed, 27 Dec 2000 07:28:54 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126429-2000.12.27-09.27.39--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I read Cap's message, but it got deleted before I was done with it.

I also wish NOID was used more. As for CAP's statement that most in the western U.S. are using NOID, well, I'm not too sure. Check this out --

>KD5XB-2>APW247,WA5IHL-11\*,WIDE4-4:=3425.85N/10313.55W-PHG5130/Earl,  
>Clovis, NM USA -NMCURCLOVIS -247-<530>

```
>KD5XB-2>APW247,KD7DR-3*,WIDE4:=3425.85N/10313.55W-PHG5130/Earl, Clovis, NM
>USA -NMCURCLOVIS -247-<530>
```

7 3  
Earl

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

**728. [aprssig] Re: Weather Station**

```
>
> > Which WX station to use
>
> The only weather stations on the market that can be directly interfaced to a
> TNC for APRS use are those made by Peet Brothers. The reasons are several -
> Peet stations SEND information, rather than waiting for it to be queried,
> they do it by putting all information into a single "packet transmission"
> that can be looked for using the TNC's existing GPS string information OR
> directly into a TNC in CONverse mode, and they're the only ones in
> wide-enough use to have "all" APRS programs adopt them as an unofficial
> over-the-air format.
>
> That does not mean you're tied to Peet, though - there are several efforts
```

**729. [aprssig] Re: APRSD questions**

Page 1136



Cc: TAPR APRS Special Interest Group <aprssid@lists.tapr.org>  
Message-ID: <LYR842-126440-2000.12.27-10.29.20--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Qrpvhf@aol.com wrote:

> I have 2 questions as to the setup of APRSD configuration file settings.  
>  
> 1. What command is the control of how rf2internet is handled. ie... messages  
> going from internet to rf are passed OK, acks from rf to internet as well as  
> rf messages to the internet are not going thru.

By default, any messages related packets should go through if the station is local to the IGATE, meaning that if a message is sent to a station that is heard by the TNC, any message to/from this station will go through.

If you want to do the same but for non local station (not heard from TNC), you have the possibility to play with the gate2rf and posit2rf parameters in the config file. The first one actually will gate any messages from the stations listed in the config file

The posit2rf will only gate the position of any station listed in the file.

>  
>  
> 2. As to the NWS-???? messages, is there anyway to filter them as to only  
> certain nws offices. At the present time we are passing all NWS-WARN &  
> NWS-WATCH messages from internet to rf. However the trustee of the stations  
> callsign does not want this extra traffic going out.  
>

No control is in place to limit what goes on for that subject, not yet at least..... (Not that I think so...)

>  
> Jacob Tennant,K8JWT  
>  
> ---  
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> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

--  
Bruno Quesnel  
Genie Electrique  
Electrical Engineering  
Ecole de Technologies Superieure  
va2bm@videotron.ca  
quesnelb@ve2.ele.etsmtl.ca  
VA2BMG  
<http://www.findu.com/cgi-bin/find.cgi?va2bm>

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---

## 730. [aprssid] Re: Weather Station

From: "Jeff Brenton" <jeffb@espi.com>  
Date: Wed, 27 Dec 2000 10:27:56 -0600  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Cc: "aprssid" <aprssid@tapr.org>  
Message-ID: <LYR842-126441-2000.12.27-10.40.32--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> the AAG (Dallas Semi) One-Wire weather station combined with a  
> TAPR T238 interface will connect directly to a KPC3 or KPC3+.

Ah, but does it reformat the data to Peet- or APRS-compatible packets? That's the kicker; APRS programs only understand on-air weather reports if they're cooked into one of the APRS formats (see the APRS standard document for the variations on this). Most will accept at least a subset of the various raw Peet "packet" formats, as well.

But I don't think the output of the One-Wire is accepted over the air. Several will read a LOCAL (as in serial-port-connected) 1W, though.

Jeff Brenton  
President,

Engineered Software Products, Inc  
<http://espi.com>  
Questionable web page: <http://dididahdhdidit.com>

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### 731. [aprssig] Re: APRSD questions

From: Guy Story <[kc5goi@tapr.org](mailto:kc5goi@tapr.org)>  
Date: Wed, 27 Dec 2000 10:32:43 -0600 (CST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-126442-2000.12.27-10.44.54--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-126442-2000.12.27-10.44.54--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

On Tue, 26 Dec 2000 [Qrpvhf@aol.com](mailto:Qrpvhf@aol.com) wrote:

> Subject: [aprssig] APRSD questions  
>  
> I have 2 questions as to the setup of APRSD configuration file settings.  
>  
> 1. What command is the control of how rf2internet is handled. ie... messages  
> going from internet to rf are passed OK, acks from rf to internet as well as  
> rf messages to the internet are not going thru.

If your station sees that stations as local activity it will gate that  
data out for you. gate2rf and posit2rf will allow you to send out over rf  
stations that are not local to your area.

>  
> 2. As to the NWS-???? messages, is there anyway to filter them as to only  
> certain nws offices. At the present time we are passing all NWS-WARN &  
> NWS-WATCH messages from internet to rf. However the trustee of the stations  
> callsign does not want this extra traffic going out.

Look at the NWS??? strings for your area. I have included my relevant  
NWS??? to my aprsd.conf files and only those get sent out. They need to  
be placed as gate2rf strings, posit2rf will not affect it.

Jacob, I can send you specific parts of my aprsd.conf file later today if  
you need it.  
73,

Guy Story  
KC5G0I  
[kc5goi@tapr.org](mailto:kc5goi@tapr.org)  
<http://www.kc5goi.net>

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---

### 732. [aprssig] Re: Weather Station

From: "Jeff Brenton" <[jeffb@espi.com](mailto:jeffb@espi.com)>  
Date: Wed, 27 Dec 2000 10:32:06 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: "aprssig" <[aprssig@tapr.org](mailto:aprssig@tapr.org)>  
Message-ID: <[LYR842-126443-2000.12.27-10.45.16--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-126443-2000.12.27-10.45.16--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

> Do you know if it sends raw data, or is it summarized every 5 minutes?  
> How often does it send information out?

That depends upon the configuration... If the Peeet is in one of its  
streaming modes, you put the TNC in GPS mode (INT GPS), with the GPSHEAD  
set to the "trigger" string for the particular weather station, such as  
"\$ULTRA". You would set the transmit interval to whatever is appropriate  
for your area, but you would only get the last report, rather than a

summary.

If the weather station is in "packet mode", where it sends a summary every 5 minutes, the TNC should be in TERMinal mode, CONVerse active, so that it goes right out, as if typed from the keyboard. This will get the summary data out as quickly as possible.

Jeff Brenton  
President,  
Engineered Software Products, Inc  
<http://espi.com>  
Questionable web page: <http://dididahdahdidit.com>

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### 733. [aprssig] Re: Weather Station

From: "Kurt O. Jauss" <[kf6hjo@lightspeed.net](mailto:kf6hjo@lightspeed.net)>  
Date: Wed, 27 Dec 2000 06:57:49 -0800  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-126452-2000.12.27-11.25.55--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I have 3 PEET Bros weather stations that work great. They attach directly to the TNC at 2400 baud using two wires and run off 12 vdc. ( I have one on my truck ) They are easy to program for the data output you want and are compact.

<http://www.peetbros.com/>

Paul Prosser wrote:

> I would like to know which weather station hardware interfaces directly  
> to a KPC3+ directly and or the easiest. I have an APRS Digi and want to  
> beacon the current conditions for the weather bureau to receive.  
> 73, Paul WA4RWS  
>  
> ---  
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> Questions regarding the SIG go to the SIG administrator: [wallou@tapr.org](mailto:wallou@tapr.org)

--

Kurt O. Jauss  
[kf6hjo@lightspeed.net](mailto:kf6hjo@lightspeed.net)  
3630.45N 11940.50W 144.39Mhz  
Selma Ca. {APRS Weather & GPS Tracker}  
SKYWARN member Hanford Ca. NWS Radio Officer  
DOSAPRS/WAPRS/APRS+SA  
Want to find my truck? <http://www.findu.com/cgi-bin/find.cgi?kf6hjo-9>

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### 734. [aprssig] Re: [APRSSIG] Another BIG APRS Event...

From: "Travis J. Maclay" <[travis@btea.org](mailto:travis@btea.org)>  
Date: Wed, 27 Dec 2000 12:14:21 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-126453-2000.12.27-11.27.33--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Just because the message does not implement or make use of various colors, fonts, etc, doesn't mean it is not HTML. You can create an HTML document to use a common font and common size that puts black text on a white background, and will look like plain text, as is in this case.

It is indeed HTML, which IMHO, is fine. If the message size is a problem, I delete it. I am on a slow 44.6 connection usually and it never takes more than 5-6 seconds to download an email on here that has been sent using HTML, therefore, I do not see how bandwidth is a valid argument either. And as for those using ancient readers such as PINE, etc., well, who knows, guess you sometimes have to read between the tags :-)

However, I will say, that in respect to the rules of the SIG, I try to remember to send in plain text. But to answer the earlier questions, yes, it was sent in HTML, even though it looks unformatted.

Travis

```
>
> From: "Earl Needham" <KD5XB@AMSAT.ORG>
>
> > Me, either. Plain text is all *I* see, with Eudora Pro. Eudora
Pro
> > always shows me the different fonts, colors, etc., but Ray's mail has
> none.
> >
> > 7 3
> > Earl
> >
>
```

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### 735. [aprssig] APRS on Internatil Space Station

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Wed, 27 Dec 2000 12:22:44 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-126459-2000.12.27-11.37.54--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I have been relatively quiet about the ISS for the last year, taking sort of a wait-n-see attitude, but now that it is in Space, and the AMATEUR payload has been activated and used for school contacts, we might any day now see APRS on the International Space Station.

If PACKET is turned on on ISS, I have learned that the default setting is for DIGI ON! Thus, we will have a digi in the sky about 6 times a day that can relay HT-to-HT rubber duck APRS messages and posits. (like we did with MIR last year)

So, be ready. When you hear packets on 145.800 downlink, then set up split operation with 144.99 as your uplink and away we go... (I do not have for certain what the callsign will be, but you will see its beacon, so just put it in your path...

I have no particular knowledge that operation is soon, but just wanted to remind everyone that it could happen at any time...

The WEB page is <http://ariss.gsfc.nasa.gov/>

Also, DON'T BE A HOG. If you see your posit digipeated once, then dont try again for 5 minutes to give others a chance. This could be up there forever, as long as we dont abuse it or wear out our welcome...

de WB4APR@amsat.org, Bob

See my APRS LIVE pages <http://web.usna.navy.mil/~bruninga/aprs.html>  
See APRS SATELLITES <http://web.usna.navy.mil/~bruninga/astars.html>  
See MIM/Mic-E/Mic-Lite <http://www.tapr.org/tapr/html/mic-e.html>

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---

### 736. [aprssig] Tigertrak TM-1 update

From: Michael Martens <[kb9vbr@yahoo.com](mailto:kb9vbr@yahoo.com)>  
Date: Wed, 27 Dec 2000 09:26:02 -0800 (PST)

To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-126461-2000.12.27-11.38.23--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

A hearty thank you to everyone who responded to my Tigertrak query. I can't believe how fast questions get answered on this SIG.

I solved my problems with the Tigertrak TM-1 and Etrex and learned some interesting things along the way. Mainly, Demo mode on the Etrex is not compatible with the TM-1. I was using demo mode on the GPS so I wouldn't have to go outside in the bitter cold. The GPRMC sentences are different between normal and demo mode, so the GPS needs to be locked on satellite signals in order for the TM-1 to correctly parse the frame.

Otherwise the unit is an excellent little tracker. It really does the trick for a simple tracking operation and it works good with the Garmin Etrex.

Next week I'm traveling to Columbus OH, if I show up on your map, give me a shout on 146.52

73  
Michael  
KB9VBR

---

Do You Yahoo!?  
Yahoo! Shopping - Thousands of Stores. Millions of Products.  
<http://shopping.yahoo.com/>

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## 737. [aprssid] Re: Weather Station

From: John Vause <jdv@iglou.com>  
Date: Wed, 27 Dec 2000 12:50:18 -0500  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-126474-2000.12.27-12.02.31--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The T238 interface will reformat the One Wire weather data to either PEET format or APRS format.  
My T238 is connected to the 2nd software serial port of my KPC3+ and I am using the 5 min averaged APRS format.

Relevant URLs:  
<http://www.tapr.org/tapr/html/Ft238.html> (TAPR info on T238)  
<http://www.beals5.com/wx/> (N0XGA's T238 development website - manuals and firmware updates)  
<http://www.aag.com.mx/weather.html> (AAG website - One-Wire WX)

73

Jeff Brenton wrote:

```
>  
> > the AAG (Dallas Semi) One-Wire weather station combined with a  
> > TAPR T238 interface will connect directly to a KPC3 or KPC3+.  
>  
> Ah, but does it reformat the data to Peet- or APRS-compatible packets?  
> That's the kicker; APRS programs only understand on-air weather reports if  
> they're cooked into one of the APRS formats (see the APRS standard document  
> for the variations on this). Most will accept at least a subset of the  
> various raw Peet "packet" formats, as well.  
>>SNIP<<
```

```
--  
* John Vause KF4ERV jdv@iglou.com *  
* "Necessity is the plea of every infringement of *  
* human freedom. It is the argument of tyrants; *  
* it is the creed of slaves." -- William Pitt *  
--
```

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---

### 738. [aprssig] Re: [APRSSIG] Another BIG APRS Event...

From: Earl Needham <[KD5XB@AMSAT.ORG](mailto:KD5XB@AMSAT.ORG)>  
Date: Wed, 27 Dec 2000 10:09:28 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-126478-2000.12.27-12.06.59--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-126478-2000.12.27-12.06.59--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

At 12:14 PM 12/27/00 -0500, Travis J. MacLay blasted the following out into the ether:  
>Just because the message does not implement or make use of various colors, fonts, etc, doesn't mean it is not HTML. You can create an HTML document to use a common font and common size that puts black text on a white background, and will look like plain text, as is in this case.

Thanks for the education...

Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

---

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---

### 739. [aprssig] APRS Satellites

From: Zachary Michael <[kb9uqq\\_2000@yahoo.com](mailto:kb9uqq_2000@yahoo.com)>  
Date: Wed, 27 Dec 2000 10:12:51 -0800 (PST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-126480-2000.12.27-12.25.02--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-126480-2000.12.27-12.25.02--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Hi Gang,  
I just got a TH-D7A(G) for Christmas and would love to work some APRS satellites. Can somebody give me a link to a good program for tracking these satellites, so that I know when to listen for them? I am really interested in sending my position across the sea into Europe with just one transmission! Thanks, Zachary Michael, KB9UQQ

=====

Thanks and 73's, Zachary Grant Michael, KB9UQQ, KB9UQQ-1, KB9UQQ-9, KB9UQQ-10 Hartford City, Blackford County, Indiana, EN70E-Mail: [kb9uqq@tawg.org](mailto:kb9uqq@tawg.org) TAWG Coordinator <http://www.tawg.org/Zach'sHomepage> <http://www.kb9uqq.net/Zach'sAPRSWebpages> <http://www.aprsinindiana.cjb.net/FindZach...> Wherever he's at: <http://www.findu.com/find.cgi/kb9uqq-9Zach'sDigi> <http://www.findu.com/find.cgi/kb9uqq-10APRS>  
Frequency: 144.390 MHz Simplex SSTV Frequency: 146.460 MHz Simplex

---

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---

### 740. [aprssig] APRS on Internatil Space Station

From: Bill Vodall <[wa7nwp@yahoo.com](mailto:wa7nwp@yahoo.com)>  
Date: Wed, 27 Dec 2000 10:24:41 -0800 (PST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-126482-2000.12.27-12.36.50--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-126482-2000.12.27-12.36.50--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

> we will have a digi in the sky about 6  
> times a day that can relay HT-to-HT rubber duck APRS messages and  
> posits.

It's currently visible in evenings. Very fun to watch it fly by. Clouds out here on the We(s)t coast opened up enough for my first view last week. Always cool to see and wave at the guys on board.

<http://liftoff.msfc.nasa.gov/RealTime/JPass/20/>

> When you hear packets on 145.800 downlink,

Anybody know of any operation frequencies we can listen to? Until the packet is working full time, it would be nice to have some evidence they're there behind the clouds.

Speaking of packet... Hopefully they won't try the lame, one-user, connected BBS scheme of Mir. One-to-one is for phone lines. It didn't work well with terrestrial BBS's, and it works even worse with WIDE AREA space vehicles. Unconnected APRS makes so much more sense!!!!

Bill

---

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<http://shopping.yahoo.com/>

---

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---

## 741. [aprssid] Fwd: Re: Weather Station

From: "Rich Beckwith" <[Rich@dps.state.mo.us](mailto:Rich@dps.state.mo.us)>  
Date: Wed, 27 Dec 2000 12:31:50 -0600  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-126483-2000.12.27-12.44.08--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-126483-2000.12.27-12.44.08--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

The T238 formats the data in the standard APRS positionless format with time stamp, which all APRS programs should read. It will also send data out as Peet format. Connect it directly to the TNC and it will take care of placing the TNC in converse mode.

The T238 summarizes data every 5 minutes which is more accurate. Instantaneous readings can be misleading.

>>> "Jeff Brenton" <[jeffb@espi.com](mailto:jeffb@espi.com)> 12/27/00 10:27AM >>>  
> the AAG (Dallas Semi) One-Wire weather station combined with a  
> TAPR T238 interface will connect directly to a KPC3 or KPC3+.

Ah, but does it reformat the data to Peet- or APRS-compatible packets?...

---

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## 742. [aprssid] Garmin Etrex & Kenwood D700

From: "Shannon Monroe" <[saladman@prodigy.net](mailto:saladman@prodigy.net)>  
Date: Wed, 27 Dec 2000 13:15:19  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-126492-2000.12.27-13.27.28--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-126492-2000.12.27-13.27.28--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

I am sure this question has been asked before, but I can't seem to find any relevant help. My apologies for any duplications I overlooked.

For christmas my father gave me a Kenwood D700, and a Garmin Etrex, with all the necessary data cables to connect the two. I went to the Garmin site, figured out the pinout for the cables, lashed them all up, and powered it up. I put the Garmin Etrex in NMEA 4800 output, and set the radio up for GPS NMEA. However, the Kenwood never gives a flashing GPS light to show it's receiving data from the GPS. I can plug a modified Delorme into the Kenwood and it works fine, and I can plug the Garmin into a computer serial port, and see the NMEA sentences. But they just can't see each other. Does anybody have any suggestions for a newbie? Thanks!

Shannon Monroe  
KG6BYW

---

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---

## 743. [aprssig] Re: Weather Station

From: "Brian B. Riley" <[brianbr@macconnect.com](mailto:brianbr@macconnect.com)>  
Date: Wed, 27 Dec 2000 14:16:01 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: "aprssig" <[aprssig@tapr.org](mailto:aprssig@tapr.org)>  
Message-ID: <[LYR842-126494-2000.12.27-13.28.34--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-126494-2000.12.27-13.28.34--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

The one wire reads just fine over the air ... it formats to APRS  
standrad - hell its an APRS project - or at least it started that way  
.... we have had 15 or 20 stations on the air for months now ...

> -----Original Message-----

> From: Jeff Brenton

> Sent: Wednesday, December 27, 2000 11:28 AM

[snip]

> > the AAG (Dallas Semi) One-Wire weather station combined with a

> > TAPR T238 interface will connect directly to a KPC3 or KPC3+.

[snip]

> Ah, but does it reformat the data to Peet- or APRS-compatible packets?

> That's the kicker; APRS programs only understand on-air

> weather reports if they're cooked into one of the APRS formats (see

> the APRS standard document for the variations on this). Most will

accept

> at least a subset of the various raw Peet "packet" formats, as well.

The OneWire T-238 has never output anything but APRS Format weather  
data

> But I don't think the output of the One-Wire is accepted over the air.

> Several will read a LOCAL (as in serial-port-connected) 1W, though.

---

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---

## 744. [aprssig] Sunsat downloads to findu?

From: "Ciemon G0TRT" <[g0trtlists@btinternet.com](mailto:g0trtlists@btinternet.com)>  
Date: Wed, 27 Dec 2000 19:16:52 -0000  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-126497-2000.12.27-13.29.18--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-126497-2000.12.27-13.29.18--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Can anyone confirm that Sunsat is still downloading to findu please.

With the D700 that Santa bought I've been having quite a bit of success but  
I haven't seen any evidence of it on the database.

I'm using <http://www.findu.com/cgi-bin/find.cgi?g0trt>

Any ideas please?

73.....Ciemon Dunville G0TRT Sysop MB7UPG IGate

ICQ - 6263612

homepage - [www.aprsuk.net](http://www.aprsuk.net)

Where is Ciemon's home station?

<http://www.findu.com/cgi-bin/find.cgi?mb7upg>

---

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---

## 745. [aprssig] RE: Garmin Etrex & Kenwood D700

From: Bill Diaz <[billdiaz@megsinet.net](mailto:billdiaz@megsinet.net)>  
Date: Wed, 27 Dec 2000 13:24:29 -0600



To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126498-2000.12.27-13.37.46--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Shannon,

The D700 GPS light will only flash when it receives a valid GPS sentence.  
The GPRMC message must not contain a V.

Press P.Mon function on your D700. If your GPS is connected properly to your D700 you will see the NMEA messages scrolling on the display. If not, Try using a null modem cable or adapter connected between the gps and D700 to see if that resolves the problem. This swaps the rx, and tx data lines.

HTH,

Bill KC9XG

On Wednesday, December 27, 2000 7:15 AM, Shannon Monroe

[SMTP:saladman@prodigy.net] wrote:

> I am sure this question has been asked before, but I can't seem to find any  
> relevant help. My apologies for any duplications I overlooked.

>

> For christmas my father gave me a Kenwood D700, and a Garmin Etrex, with  
> all the necessary data cables to connect the two. I went to the Garmin  
> site, figured out the pinout for the cables, lashed them all up, and  
> powered it up. I put the Garmin Etrex in NMEA 4800 output, and set the  
> radio up for GPS NMEA. However, the Kenwood never gives a flashing GPS  
> light to show it's receiving data from the GPS. I can plug a modified  
> Delorme into the Kenwood and it works fine, and I can plug the Garmin into  
> a computer serial port, and see the NMEA sentences. But they just can't  
> see each other. Does anybody have any suggestions for a newbie? Thanks!

>

> Shannon Monroe

> KG6BYW

>

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---

## 746. [aprssig] Re: Sunsat downloads to findu?

From: Bob Bruninga <bruninga@usna.edu>  
Date: Wed, 27 Dec 2000 15:29:38 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126505-2000.12.27-14.41.56--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Wed, 27 Dec 2000, Ciemon G0TRT wrote:

> Can anyone confirm that Sunsat is still downloading to findu please.

I just checked my WB4APR-3 posit today and it was only 8 hours old. SO that matches to the 3 AM pass and I did leave my radio on overnight...

> With the D700 that Santa bought I've been having quite a bit of success but  
> I haven't seen any evidence of it on the database.

I have not had much success hearing the downlink, but my attempts have been half-hearted and incomplete (it is well below freezing here) But I have not heard it on 436.250, but my success above says I was getting in... I was usint the 1200 baud 145.900 uplink...  
bob

> > I'm using  
http://www.findu.com/cgi-bin/find.cgi?g0trt >  
> Any ideas please?

>

> 73....Ciemon Dunville G0TRT Sysop MB7UPG IGate

> ICQ - 6263612

> homepage - www.aprsuk.net

> Where is Ciemon's home station?

> http://www.findu.com/cgi-bin/find.cgi?mb7upg

>  
>  
> ---  
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>  
>

de WB4APR@amsat.org, Bob

See my APRS LIVE pages <http://web.usna.navy.mil/~bruninga/aprs.html>  
See APRS SATELLITES <http://web.usna.navy.mil/~bruninga/astars.html>  
See MIM/Mic-E/Mic-Lite <http://www.tapr.org/tapr/html/mic-e.html>

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---

## 747. [aprssig] Re: APRS Big Event needed.

From: Brian Badger <Brian.Badger@wcom.com>  
Date: Wed, 27 Dec 2000 13:37:39 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126506-2000.12.27-14.50.21--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bob,

Last month, my new wife (KD4WBA) and I were on honeymoon in New Zealand. While NZ has an APRS network in some of the cities, we were not in any of the cities. Instead we were hiking the Milford Track in Fiordland, near the bottom of the world.

We transmitted location and status and bulletins of our progress daily via APRSAT. Johann Lochner ZR1CBC sent me a copy of the SUNSAT digilogs for proof. Unfortunately, this was before they were being fed into findu -- so no one heard us except the bird.

FYI, we were operating 9600 baud on the Mode J uplink using a D7A(G) into an MH-510 21" triband whip (normally used with my VX-5 while hiking), GPSIII+ gave us posits, and a Palm Pilot gave us the passes. The secret to reliable uplinks at 9600 baud/5 watts is -- stand the radio on the ground and back up. The 70cm downlink was very strong, and we copied our digi'd packets quite reliably.

BTW: The rest of the Milford Track hikers got a quick dose of Amateur Radio -- they all just had to know what would make me walk out in the rain every day during breakfast and dinner.

--  
Brian KC0HIR

Bob Bruninga wrote:

>  
> All they have to do is QSY their tracker over to 145.825 for 2 hours or so  
> between 0230 to 0530 or 1500 to 1800 local sun time and set their path VIA  
> APRSAT... Check your success on FINDU.COM  
>  
> I'ts getting kinda boring watching my car sitting in the driveway...:-(  
>  
> No one's listening because no one is transmitting... no one is  
> transmitting because no one is listening...  
>  
> de WB4APR@amsat.org, Bob

---  
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---

## 748. [aprssig] Re: Sunsat downloads to findu?

From: William Owens <wowens@iximd.com>  
Date: Wed, 27 Dec 2000 15:49:41 -0500

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126507-2000.12.27-15.02.46--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hey Bob copied your packets this morning on the 05:00 pass, a number of them came through just fine.

73

Will  
N3ZLL

Bob Bruninga wrote:

> On Wed, 27 Dec 2000, Ciemon G0TRT wrote:  
>  
> > Can anyone confirm that Sunsat is still downloading to findu please.  
>  
> I just checked my WB4APR-3 posit today and it was only 8 hours old. SO  
> that matches to the 3 AM pass and I did leave my radio on overnight...  
>

---

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## 749. [aprssi] APRS in the EOC

From: David VanHorn <dvanhorn@cedar.net>  
Date: Wed, 27 Dec 2000 16:10:55 -0500  
To: "TAPR APRS Special Interest Group" <aprssi#lists.tapr.org>  
Message-ID: <LYR842-126511-2000.12.27-15.25.44--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I had a long chat with our EOC director today.

Several developments in the works. He's been invited to be on the advisory group with the NWS for the "storm-ready" program, which puts him in a position to advise other counties on how to implement their EOCs.

The next project he wants to tackle (bought some of the materials today) is getting the APRS system onto a projection screen in the main EOC.

Some niggling mechanical details to work out, but nothing too difficult. I would guess that by next week, our APRS screen will be a 4' display in the EOC.

I hope it won't be saying "Unhandled exception error".....

:)

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

---

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---

## 750. [aprssi] Re: Weather Station

From: "Russ Chadwick" <crb5@qwest.net>  
Date: Wed, 27 Dec 2000 16:09:28 -0700  
To: "TAPR APRS Special Interest Group" <aprssi#lists.tapr.org>  
Cc: "Will Beals" <will@beals5.com>  
Message-ID: <LYR842-126534-2000.12.27-17.21.37--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

----- Original Message -----

From: Jeff Brenton <jeffb@espi.com>  
Subject: [aprssi] Re: Weather Station

> > Which WX station to use  
>

> The only weather stations on the market that can be directly interfaced to  
a  
> TNC for APRS use are those made by Peet Brothers.  
>

The statement above is not correct. As others have also stated, the T-238 interface kit sold by TAPR interfaces directly to a TNC for APRS use. The 1-Wire weather station connects to the T-238 which connects to a KPC-3+ which connects to a HTX-202 radio. I have two stations running like this and the data is received, recorded and displayed properly by APRSdos. The data is also picked up and available through findu.com

<http://wx.findu.com/kb0tvj-5>

<http://wx.findu.com/kb0tvj-6>

To see some reviews of citizens weather stations see

<http://www.wunderground.com/weatherstation/index.asp>

Note that the outdoor sensor unit sold by Texas Weather Instrument (reviewed in the above URL) is similar to the 1-Wire weather station. What the T-238 does is allow you to use a less expensive indoor unit that is available as a kit and is especially made for APRS use. The T-238 and the frequent upgrades to the software are discussed on the TAPR [wxsig]. As of the most recent upgrade (yesterday), it has remote diagnostics.

Russ  
kb0tvj

---

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---

## 751. [aprssig] Laplink

From: "Pitts, Charles" <cpitts04@sprintspectrum.com>  
Date: Wed, 27 Dec 2000 17:32:08 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126535-2000.12.27-17.44.22--lyris.aprssig@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

:> > Another way to accomplish this  
:> > (at about the same speed) would be to use LapLink or another  
equivalent to  
:> > transfer the Win95 directory from any CD equipped desktop over to  
the  
:> > laptop.  
:>  
:> No way as fast, after computing the LapLink transfer at a max speed of  
:> 19,200bps, it worked out to a transfer time of about 16hours! The ZIP  
to HD  
:> transfer took 15 minutes.  
:>  
:>  
:> Jacob Tennant,K8JWT  
:> > Another way to accomplish this  
:> > (at about the same speed) would be to use LapLink or another  
equivalent to  
:> > transfer the Win95 directory from any CD equipped desktop over to  
the  
:> > laptop.  
:>  
:> No way as fast, after computing the LapLink transfer at a max speed of  
:> 19,200bps, it worked out to a transfer time of about 16hours! The ZIP  
to HD  
:> transfer took 15 minutes.  
:>  
:>  
:> Jacob Tennant,K8JWT

16 hours no way. I have used laplink and fxlink both to transfer the cab files for w95 and w98 over to a laptop without a cdrom drive. granted it is slow. only took approx. 1 hour. I was using a parallel cable wired for turbo mode using the 16 wire hookup. I used an old printer cable and cut off the printer end and put the DB-25 connector on the end after chasing the wires with a cont tester. The one thing to remember to reduce the transfer time is

to have a good clean connection in the cables as well as to your parallel port. this will reduce the errors that will pop up in laplink. To load 95 or 98 you do not have to transfer the whole CD just the cab files. create your directory for windows then a folder called options the a folder called 98CABS. this is a universal place to put these files so when a computer tech does work on the computer he will know where to go to find them.

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## 752. [aprssig] 10 Meter 300 baud APRS frequency

From: "Michael Francoeur" <[n1naf@mint.net](mailto:n1naf@mint.net)>  
Date: Wed, 27 Dec 2000 18:57:16 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-126539-2000.12.27-18.08.14--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-126539-2000.12.27-18.08.14--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Lets set 28.151 MHz (LSB) as the 10 meter 300 baud APRS frequency. I'll be working this frequency for a couple of weeks to see what kind of activity there is.

- Mike/N1NAF

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---

## 753. [aprssig] RE: LapLink

From: "Robert Donnell" <[kd7nm@pugetsound.net](mailto:kd7nm@pugetsound.net)>  
Date: Wed, 27 Dec 2000 16:37:47 -0800  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-126543-2000.12.27-18.50.03--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-126543-2000.12.27-18.50.03--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Hi Jacob and all,

I don't know where you came up with the 19.2 kilobits/sec figure - most serial ports on most laptops (even 386 machines) will run at 115 kilo bits/sec. And as mentioned by another, there's also the parallel port connection, which is even faster - maybe up to 3 megabytes (megaBYTES - not megaBITS) per second. I'd only use the serial port technique if I had to make/buy a cable because I forgot the parallel cable that is packaged with the software. Also, there's no reason that the parallel port transfer speed using LapLink shouldn't match the parallel port speed using the parallel port Zip disk - after all, it's the same interface. And you only have to do that transfer once - from the desktop to the laptop, rather than 1) desktop to ZIP, then 2) ZIP to laptop. As a side note, in many cases when less powerful computers are involved, the compression features of LapLink should be disabled - it takes more processor power and time to do the compression and/or decompression than it takes time to do the transfer. That, and in the case of Windows 9x CAB files, they are already compressed, and don't yield any speed gain, even though the sending machine tries.

-----Original Message-----

:>  
:> No way as fast, after computing the LapLink transfer at a max speed of  
:> 19,200bps, it worked out to a transfer time of about 16hours! The ZIP  
to HD  
:> transfer took 15 minutes.  
:>  
:>  
:> Jacob Tennant,K8JW

73, Bob

-----  
Robert Donnell, KD7NM (206) 542-7661  
18828 Midvale Ave N [mailto:kd7nm@pugetsound.net](mailto:mailto:kd7nm@pugetsound.net)  
Shoreline, WA 98133  
Western Washington Amateur IP Address Coordinator  
-----

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## 754. [aprssid] Help with TH-D7A(G)

From: Zachary Michael <[kb9uqq\\_2000@yahoo.com](mailto:kb9uqq_2000@yahoo.com)>  
Date: Wed, 27 Dec 2000 19:46:03 -0600  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-126544-2000.12.27-18.55.40--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-126544-2000.12.27-18.55.40--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Hi Gang,  
I have emailed the HTAPRS sig several times with only a few replies,  
so I figured I would get some more from this one. I just got a  
TH-D7A(G) for Christmas and I am trying to hook it up to a Delorme  
Tripmate. The problem is that the TH-D7A won't recognize it. I have  
done KD4RDB's mods and have made a cable from the TH-D7A to the  
Tripmate. The pinout is as follows:  
Ground on Tripmate ---> Sleeve on connector to TH-D7A  
Transmit Data from Tripmate ---> Ring on connector to TH-D7A  
My settings are as follows:  
GPS Unit: NMEA  
Waypoint: Off  
The problem is with the D7A not with the Tripmate. I have tested the  
Tripmate with a computer to ensure that it self starts. When I hook it  
up to the D7A, all it does is beep at me every time it is supposed to  
transmit. I think that that means it is not getting GPS input. When I  
push the POS button it does not fill the Latitude and Longitude with  
the information, so it is definitely not getting GPS input. CAN ANYBODY  
HELP ME??????

Thanks,  
Zachary Michael, KB9UQQ

## 755. [aprssid] Re: Help with TH-D7A(G)

From: Robbie Robertson <[mwrobertson@mediaone.net](mailto:mwrobertson@mediaone.net)>  
Date: Wed, 27 Dec 2000 18:55:14 -0600  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-126545-2000.12.27-19.07.58--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-126545-2000.12.27-19.07.58--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Zachary Michael wrote:

> The problem is with the D7A not with the Tripmate. I have  
> tested the Tripmate with a computer to ensure that it self  
> starts. When I hook it up to the D7A, all it does is beep  
> at me every time it is supposed to transmit. I think that  
> that means it is not getting GPS input. When I push the  
> POS button it does not fill the Latitude and Longitude  
> with the information, so it is definitely not getting GPS  
> input. CAN ANYBODY HELP ME??????  
> Thanks,  
> Zachary Michael, KB9UQQ  
>

The most trouble we have been having with your setup is just  
simply try putting the data from the GPS to either the ring  
or tip, and making sure you have VALID data, not just  
strings of \$GPRMC 0,0,0,0,0, and so forth. If it is not a  
valid fix, the THD-7A will beep and not send the lat/long..  
If the GPS is inside your living room or basement, forget  
it!! Also, be patient, the GPS take several minutes sometime  
to get VALID fixes, :-)

good luck and 73

--

- Robbie Robertson -  
...-- wa9inf ...--

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## 756. [aprssid] Laplink clarification

From: [Qrpvhf@aol.com](mailto:Qrpvhf@aol.com)  
Date: Wed, 27 Dec 2000 20:12:17 EST

To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-126555-2000.12.27-19.24.38--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

When I said I could only get 19k2 connection, that was using ProComm software as I couldn't get LapLink to make a connection to my desktop computer. I have since connected the two computers with Windows using hyperlink and have connections now at 155k.

The ZIP disk idea was for someone that didn't have Win95/98 on the laptop computer already.

Jacob Tennant,K8JWT

---

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## 757. [aprssid] Re: 10 Meter 300 baud APRS frequency

From: WA4TKGMatt@aol.com  
Date: Wed, 27 Dec 2000 21:23:10 EST  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-126569-2000.12.27-20.35.58--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Makes sense to me.

---

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## 758. [aprssid] Weather setup for WinAPRS as a igate?

From: Qrpvhf@aol.com  
Date: Wed, 27 Dec 2000 21:56:37 EST  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-126572-2000.12.27-21.10.08--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Looking for thge web page that explains how to set up a WinAPRS Igate station to pass watches & warnings from the internet to RF...

Jacob Tennant,K8JWT

---

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---

## 759. [aprssid] Re: APRS on Internatil Space Station

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Wed, 27 Dec 2000 10:12:28 -0700  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-126577-2000.12.27-23.20.35--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 12:22 PM 12/27/00 -0500, Bob Bruninga blasted the following out into the ether:

>I have been relatively quiet about the ISS for the last year, taking sort  
>of a wait-n-see attitude, but now that it is in Space, and the AMATEUR  
>payload has been activated and used for school contacts, we might any day  
>now see APRS on the International Space Station.  
>  
>If PACKET is turned on on ISS, I have learned that the default setting  
>is for DIGI ON! Thus, we will have a digi in the sky about 6  
>times a day that can relay HT-to-HT rubber duck APRS messages and posits.  
>(like we did with MIR last year)

That's a really neat thing, having a digi in orbit.

The next thing I want to see (and I've said so several times in the past) is A TRACKER IN ORBIT, whether on the ISS or Mir, or whatever. Phase3D would be a neat application for a tracker, but perhaps a bit inappropriate...

7 3  
Earl

>So, be ready. When you hear packets on 145.800 downlink, then set up  
>split operation with 144.99 as your uplink and away we go... (I do not  
>have for certain what the callsign will be, but you will see its beacon,  
>so just put it in your path...  
>  
>I have no particular knowledge that operation is soon, but just wanted to  
>remind everyone that it could happen at any time...  
>  
>The WEB page is <http://ariss.gsfc.nasa.gov/>  
>  
>Also, DON'T BE A HOG. If you see your posit digipeated once, then dont  
>try again for 5 minutes to give others a chance. This could be up there  
>forever, as long as we dont abuse it or wear out our welcome...  
>  
>de WB4APR@amsat.org, Bob  
>  
>See my APRS LIVE pages <http://web.usna.navy.mil/~bruninga/aprs.html>  
>See APRS SATELLITES <http://web.usna.navy.mil/~bruninga/astars.html>  
>See MIM/Mic-E/Mic-Lite <http://www.tapr.org/tapr/html/mic-e.html>  
>  
>  
>  
>---  
>You are currently subscribed to aprssig as: KD5XB@AMSAT.ORG  
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>Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

Earl Needham, KD5XB <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico DM84jk N34d 25.446m W103d 12.700m (or so)

Pet peeve: breath is a noun, breathe is a verb (When you take a breath,  
you breathe...)

---

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## 760. [aprssig] SUNSAT

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Thu, 28 Dec 2000 00:11:30 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-126578-2000.12.27-23.24.18--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I may have screwed up a message or two about the SUNSAT frequencies. Here  
is the poop. I just copied it fine in my mobile this afternoon, and my HT  
on the car seat beside me even picked up some packets...

1200 baud standard APRS uplink 145.900 VIA APRSAT  
9600 baud uplink 145.825 VIA APRSAT  
9600 baud downlink 436.250 +/- 10 Khz Doppler

Passes are between about 0230 and 0530 and 1500 to 1800 Local time.  
All successful packets are downloaded 4 times a day to FINDU.COM via South  
Africa. At least one pass a day may be Voice with a donwlink on 145.825.

de WB4APR@amsat.org, Bob

See my APRS LIVE pages <http://web.usna.navy.mil/~bruninga/aprs.html>  
See APRS SATELLITES <http://web.usna.navy.mil/~bruninga/astars.html>  
See MIM/Mic-E/Mic-Lite <http://www.tapr.org/tapr/html/mic-e.html>

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## 761. [aprssig] Re: 10 Meter 300 baud APRS frequency

From: Skip Allison <[sallison@megsinet.net](mailto:sallison@megsinet.net)>  
Date: Wed, 27 Dec 2000 23:21:24 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>



Message-ID: <LYR842-126581-2000.12.27-23.34.47--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

I assume that's 28.151 Mark freq? I'm there - beaming east from Chicago.  
I'm running a RatShack HTX-10 @ 25 Watts. I set my other HF radio on 28.151 and zero beated the HTX-10 to it. I'll leave it running for a while to see what I hear.

Skip  
K9SA

Michael Francoeur wrote:

>  
> Lets set 28.151 MHz (LSB) as the 10 meter 300 baud APRS frequency. I'll be  
> working this frequency for a couple of weeks to see what kind of activity  
> there is.  
>

---

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## 762. [aprssid] TH-D7AG

From: "Lee H. Dahlen" <kd4tqz@qsl.net>  
Date: Thu, 28 Dec 2000 00:59:46 -0500  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-126597-2000.12.28-00.12.05--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

Robbie,

If the D7 is beeping (low tones) it means the Tripmate is on, and the D7 is receiving a signal but the GPS has not locked into the required number of birds, for a fix yet. When it gets a lock, you will hear an ascending tripletone and upon hitting the POS button, you will have more than 0's

Lee/KD4TQZ

---

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## 763. [aprssid] Re: Weather Station

From: "Vic Fraenckel" <vfraencl@nycap.rr.com>  
Date: Thu, 28 Dec 2000 07:56:59 -0500  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-126665-2000.12.28-07.08.59--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

Does the NMEA standard have any provisions for a standard sentence(s) for weather instruments? NMEA isn't just for GPSs. Just curious.

Vic

---

Victor Fraenckel - The Windman                      vfraencl@nycap.rr.com  
KC2GUI                                                              www.windsway.com

Home of the WindReader Electronic Theodolite  
Read the WIND

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---

## 764. [aprssid] Feature request: hardware status alarms

From: "Ralph R. Swick" <kd1sm@ziplink.net>  
Date: Thu, 28 Dec 2000 08:08:25 -0500  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-126667-2000.12.28-07.21.24--lyris.aprssid@lists.tapr.org>  
Rendered body type: text/plain

A comrade and fellow long-time APRSer has had hardware problems that have recently caused him to take his APRSdos station off the air entirely until he gets better diagnostics. The final straw that discouraged him the most was that he had insufficient indication that his APRS wx transmissions were in fact being heard by no one and this condition could have been occurring for days or weeks without him noticing.

What would help in cases of stations with marginal connectivity and/or who are subject to other physical mishap is to have some additional on-screen and audible alarms that could be enabled as an operator setup option:

I Digipeat Failure Alarm.

APRSdos currently displays a 'no digipeat of last msg' warning but this warning is overwritten by subsequent status messages. A persistent on-screen indicator of "no digipeat in last XXXX minutes" would help. Even better, add an audible alarm that triggers at a user-settable number of minutes or hours.

II TNC Communications Failure Alarm.

There seem to be failure modes of our TNCs that leave APRSdos continuing to receive parsable data off the air but unable to transmit data. (This happens both with Stan's KPC-3 and my KAM.) The observable symptom is much like a baud rate mismatch on the TX line. The only fix I have found is to power-cycle the TNC.

A second visible and audible alarm that indicated that the TNC was not responding correctly to the controlling software would be a help. While the Digipeat Failure alarm could cover this case too, an operator might want to know much more quickly if the TNC fails.

Thanks for listening to these suggestions.

73,

-Ralph kd1sm

<http://www.findu.com/cgi-bin/wxpage.cgi?KD1SM>

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---

## 765. [aprssig] RE: SUNSAT

From: "Scott-KC5JGV" <[kc5jgv@ozarkisp.net](mailto:kc5jgv@ozarkisp.net)>  
Date: Thu, 28 Dec 2000 07:38:44 -0800  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-126670-2000.12.28-07.58.58-lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-126670-2000.12.28-07.58.58-lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Good Morning Bob and the Group!

As we are obviously moving more and more into the SPACE realm for APRS, I'd like to see more software control of the radio. Trying to remember when a sat is flying over, what sat it is, what the freqs are, if we go that right or backwards, and all other parameters, makes working the sats too cumbersome, especially if your traveling!

I think Bob started to work on a program called APRStk that would change the D7 or D700 to the downlink, but you still had to change the uplink manually and work it manually. Couldn't this be automated? If it were, I'd bet the "Next Big APRS Event" would be all the hams working these sats!

73

Scott

-----Original Message-----

From: [bounce-aprssig-21572@lists.tapr.org](mailto:bounce-aprssig-21572@lists.tapr.org)  
[mailto:[bounce-aprssig-21572@lists.tapr.org](mailto:bounce-aprssig-21572@lists.tapr.org)]On Behalf Of Bob Bruninga  
Sent: Wednesday, December 27, 2000 21:12 PM  
To: TAPR APRS Special Interest Group  
Subject: [aprssig] SUNSAT

I may have screwed up a message or two about the SUNSAT frequencies. Here is the poop. I just copied it fine in my mobile this afternoon, and my HT on the car seat beside me even picked up some packets...

1200 baud standard APRS uplink 145.900 VIA APRSAT  
9600 baud uplink 145.825 VIA APRSAT  
9600 baud downlink 436.250 +/- 10 Khz Doppler

Passes are between about 0230 and 0530 and 1500 to 1800 Local time.  
All successful packets are downloaded 4 times a day to FINDU.COM via South Africa. At least one pass a day may be Voice with a donwlink on 145.825.

de WB4APR@amsat.org, Bob

See my APRS LIVE pages <http://web.usna.navy.mil/~bruninga/aprs.html>  
See APRS SATELLITES <http://web.usna.navy.mil/~bruninga/astars.html>  
See MIM/Mic-E/Mic-Lite <http://www.tapr.org/tapr/html/mic-e.html>

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## 766. [aprssig] Re: APRS on Internatil Space Station

From: Bob Bruninga <bruninga@usna.edu>  
Date: Thu, 28 Dec 2000 09:26:50 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126674-2000.12.28-08.39.06--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Wed, 27 Dec 2000, Earl Needham wrote:

> The next thing I want to see (and I've said so several times in the  
> past) is A TRACKER IN ORBIT, whether on the ISS or Mir, or  
> whatever..

I agree, but actually it is not needed at all. One copy of APRSdata.exe running on the east and west coasts can digi ISS Positions off of ISS to make it "report" its actual positions. THus everyone on the ground sees the moving satellite just as if it had a GPS on board. The fact that the packet is generated on the ground and digipeated via ISS is transparent to the users. We were doing this for MIR during our packet experiments last year...

Cant wait...

bob

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## 767. [aprssig] Re: Weather Station

From: Gerry Creager N5JXS <gerry@cs.tamu.edu>  
Date: Thu, 28 Dec 2000 08:36:25 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126675-2000.12.28-08.48.59--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Vic Fraenckel wrote:

>  
> Does the NMEA standard have any provisions for a standard sentence(s) for  
> weather instruments? NMEA isn't just for GPSs. Just curious.

Not that I'm aware of, but I'll check. NMEA-0183 is an autopilot standard, and I can't off-hand think of a need for a weather sentence.

If you're thinking of a human readable format, that's been bounced about here and pretty well discarded. I don't know if the idea's dead, but I'd not release it from intensive care anytime soon!

73, gerry n5jxs

--

Gerry Creager -- gerry@cs.tamu.edu  
Network Engineering |Research focusing on  
Academy for Advanced Telecommunications |Satellite Geodesy and  
and Learning Technologies |Geodetic Control  
Texas A&M University 979.458.4020 (Phone) -- 979.847.8578 (Fax)

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---

## 768. [aprssig] Re: APRS on Internatil Space Station

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Thu, 28 Dec 2000 07:39:59 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126676-2000.12.28-08.55.45--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 09:26 AM 12/28/00 -0500, Bob Bruninga blasted the following out into the ether:  
>on wed, 27 dec 2000, earl needham wrote:  
>  
> > the next thing i want to see (and i've said so several times in the  
> > past) is a tracker in orbit, whether on the iss or mir, or  
> > whatever..  
>  
>i agree, but actually it is not needed at all. one copy of aprsdata.exe  
>running on the east and west coasts can digi iss positions off of iss to  
>make it "report" its actual positions. thus everyone on the ground sees  
>the moving satellite just as if it had a gps on board. the fact that the  
>packet is generated on the ground and digipeated via iss is transparent to  
>the users. we were doing this for mir during our packet experiments last  
>year...  
>  
>cant wait...

I don't know, Bob -- I think I would rather have an ACTUAL tracker on board the ISS. Shucks, I have 3 or 4 different sat tracking programs here, so finding the ISS isn't a problem. It's just that, to me, it's a much greater thrill/treat to receive the packet directly and see it plot on my map.

Besides, out here in New Mexico, I'd probably NEVER hear anyone else using aprsdata.exe...

7 3  
Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

---

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## 769. [aprssig] Tracker in Space

From: "Ralph Tullio" <ralphtullio@yahoo.com>  
Date: Thu, 28 Dec 2000 08:45:21 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126677-2000.12.28-09.00.00--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The big question is can a GPS handle a speed of 14,000 mph.

The second question is can the ISS actually see enough the GPS signals that are beamed at the earth. Remember, you need 6 satellites for a lock.

Ralph Tullo, N5LHB  
tullo@email.com

---

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---

## 770. [aprssid] Re: Weather Station

From: "Rich Beckwith" <[Rich@dps.state.mo.us](mailto:Rich@dps.state.mo.us)>  
Date: Thu, 28 Dec 2000 08:51:05 -0600  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-126678-2000.12.28-09.03.17--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-126678-2000.12.28-09.03.17--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

With a little practice, the "positionless" weather format (APRS Spec pg 64) is fairly easy to read. This is the format used by the T238 and 1-Wire weather station combo, as well as other weather stations and UIView.

>>> Gerry Creager N5JXS <[gerry@cs.tamu.edu](mailto:gerry@cs.tamu.edu)> 12/28/00 08:36AM >>>

Vic Fraenckel wrote:

>

> Does the NMEA standard have any provisions for a standard sentence(s) for  
> weather instruments? NMEA isn't just for GPSs. Just curious.

Not that I'm aware of, but I'll check. NMEA-0183 is an autopilot standard, and I can't off-hand think of a need for a weather sentence....

---

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---

## 771. [aprssid] Re: Weather Station

From: "Vic Fraenckel" <[vfraenc1@nycap.rr.com](mailto:vfraenc1@nycap.rr.com)>  
Date: Thu, 28 Dec 2000 10:04:07 -0500  
To: "TAPR APRS Special Interest Group" <[aprssid@lists.tapr.org](mailto:aprssid@lists.tapr.org)>  
Message-ID: <[LYR842-126688-2000.12.28-09.16.05--lyris.aprssid#tapr.org@lists.tapr.org](mailto:LYR842-126688-2000.12.28-09.16.05--lyris.aprssid#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Gerry,

you wrote:

| re: human readable wx: There's a list/group forming to discuss some  
| other weather-related issues and this'd be appropriate here. I'll let  
| you know when the list is active and you can sign up and bring it up to  
| a group more interested in weather, spotting, etc. and we can see if WE  
| can champion it to standard.

Not necessary. I was just reading the WX station thread about connecting the Dallas one-wire unit to APRS and there seemed to be some problem with the WX station data output sentences and I thought there might be a NMEA sentence that would be an appropriate standard to use with the various WX stations people might want to connect to APRS. That's what standards are for.

BTW: NMEA is more than just an autopilot standard. It is meant to be a standard for most marine instruments including, but not limited to, GPS, LORAN and Autopilots

Vic

---

Victor Fraenckel - The Windman  
KC2GUI

[vfraenc1@nycap.rr.com](mailto:vfraenc1@nycap.rr.com)  
[www.windsway.com](http://www.windsway.com)

Home of the WindReader Electronic Theodolite  
Read the WIND

----- Original Message -----

From: "Gerry Creager N5JXS" <gerry@cs.tamu.edu>  
To: "Vic Fraenckel" <vfraencl@nycap.rr.com>  
Sent: Thursday, December 28, 2000 9:38 AM  
Subject: Re: [aprssig] Re: Weather Station

| Vic Fraenckel wrote:  
| >  
| > Does the NMEA standard have any provisions for a standard sentence(s)  
for  
| > weather instruments? NMEA isn't just for GPSs. Just curious.  
|  
| 73, gerry n5jxs  
| --  
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---

## 772. [aprssig] Re: Tracker in Space

From: Gerry Creager N5JXS <gerry@cs.tamu.edu>  
Date: Thu, 28 Dec 2000 09:05:02 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-126689-2000.12.28-09.17.32--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Ralph Tullo wrote:

>  
> The big question is can a GPS handle a speed of 14,000 mph.

Yes. NASA experiments using GPS occur on a regular basis, and there's a big push to use GPS observables to look at the ionosphere and troposphere.

The real question is, can NMEA handle it? or do we encode using MicE format?

> The second question is can the ISS actually see enough the GPS signals that  
> are beamed at the earth. Remember, you need 6 satellites for a lock.

Sure. It's below the birds, and can get a lot more info than you can on the ground: half the observable satellites are seperated from you by rock and dirt; for ISS it's more like 20% of the sky's so seperated!

--

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---

## 773. [aprssig] Re: [htaprs] APRS Beacon trouble with THD7A

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Thu, 28 Dec 2000 10:06:26 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@tapr.org](mailto:aprssig@tapr.org)>  
Message-ID: <LYR842-126690-2000.12.28-09.20.08--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Thu, 28 Dec 2000, Jack Chomley wrote:

> OK, today I set it up with GPS set to NMEA, plugged in the Garmin 38,  
> all works great! left bcon set on....unplugged GPS....radio still  
> beacons at set interval. Turned radio off, back on and pressed bcon  
> again....still no GPS plugged in.....radio still beacons :-)  
> GPS still set to NMEA. So.....this is a mystery....maybe I have a  
> weird THD7A :-)

No, when you power it up, it checks to see how long it was powered off.  
If the time is small, then it will re-use the last NMEA position. If it  
has been off for a longer period (I don't know how long), then it will  
ignore the last NMEA position and will not transmit anything until it gets  
a new GPS (fresh) posit...

de WB4APR, Bob

---

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## 774. [aprssig] Re: APRS on Internatil Space Station

From: Bob Bruninga <bruninga@usna.edu>  
Date: Thu, 28 Dec 2000 10:24:11 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126692-2000.12.28-09.36.25--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Thu, 28 Dec 2000, Earl Needham wrote:

> I don't know, Bob -- I think I would rather have an ACTUAL tracker on  
> board the ISS. Shucks, I have 3 or 4 different sat tracking programs here,  
> so finding the ISS isn't a problem. It's just that, to me, it's a much  
> greater thrill/treat to receive the packet directly and see it plot on my map.

True, In the early days of APRS I tried to encourage a GPS for MIR,  
Shuttle and ISS, but soon realized that it was pointless.. since the  
paperwork would be horrendous, cost in millions, and bureaucracy would  
take 10 years to do it. Whereas, originaing the packet on the ground  
could be done at no cost and yet have the same effect to all observers  
everywhere...

Practically speaking, satellites are fixed objects that do not "move" at  
all (unless they fire an engine). Yes, they have velocity, but its  
position is 100% predictable at any time. As such, putting a GPS  
on a satellite is no more practical than putting one on one's house.  
True, ISS does maneuver, but within minutes NORAD updates the keps, so

> Besides, out here in New Mexico, I'd probably NEVER hear anyone else  
> using aprsdata.exe...

One station on the EAST and one on the WEST coast would hit the ISS with  
its posits over the entire USA and 1000 miles offshore... Everyone  
everywhere would see it moving.. on their APRS displays.

Hummh... Maybe I should go ahead and put an APRSdata on the SUNSAT and  
UO22 UPLINKS so they can be reporting their positions now... Hummh....

so many things to do ... so little time....

bob

---

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## 775. [aprssig] Re: Feature request: hardware status alarms (fwd)

From: Bob Bruninga <bruninga@usna.edu>  
Date: Thu, 28 Dec 2000 10:27:01 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126694-2000.12.28-09.39.46--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Good ideas. I'll put them on the consider list..

Each time APRSdos sends a timed STATUS Packet, then handshaking comms with the TNC should automatically re-establish. At any time you see the TNC not responding to APRSdos sending, then there are two easy fixes to re-sync them...

- 1) Hit alt-SETUP-TNC. That is what it is there for...
- 2) hit OPS-COM-TNC and when you get the blue screen and command prompt, hit ESC back into APRSdos.

Hope that helps..  
bob

On Thu, 28 Dec  
2000, Ralph R. Swick wrote:

> APRSdos currently displays a 'no digipeat of last msg'  
> warning but this warning is overwritten by subsequent  
> status messages. A persistent on-screen indicator of  
> "no digipeat in last XXXX minutes" would help. Even  
>  
> There seem to be failure modes of our TNCs that leave  
> APRSdos continuing to receive parsable data off the  
> air but unable to transmit data. (This happens both  
> with Stan's KPC-3 and my KAM.) The observable  
> symptom is much like a baud rate mismatch on the TX  
> line. The only fix I have found is to power-cycle the TNC.  
>  
> Thanks for listening to these suggestions.  
> 73,  
> -Ralph kd1sm

---

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## 776. [aprssig] Re: [htaprs] APRS Beacon trouble with THD7A

From: Gerry Creager N5JXS <gerry@cs.tamu.edu>  
Date: Thu, 28 Dec 2000 09:29:56 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@tapr.org>  
Message-ID: <LYR842-126695-2000.12.28-09.43.46--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bob Bruninga wrote:

>  
> On Thu, 28 Dec 2000, Jack Chomley wrote:  
>  
> > OK, today I set it up with GPS set to NMEA, plugged in the Garmin 38,  
> > all works great! left bcon set on....unplugged GPS...radio still  
> > beacons at set interval. Turned radio off, back on and pressed bcon  
> > again....still no GPS plugged in.....radio still beacons :-)  
> > GPS still set to NMEA. So.....this is a mystery....maybe I have a  
> > weird THD7A :-)  
>  
> No, when you power it up, it checks to see how long it was powered off.  
> If the time is small, then it will re-use the last NMEA position. If it  
> has been off for a longer period (I don't know how long), then it will  
> ignore the last NEMA position and will not transmit anything until it gets  
> a new GPS (fresh) posit...

To expand on How Things Work a little,  
The GPS receiver depends on several files to understand where it is and where to look for satellites. One of these is the Almanac. Nominally good for 28 days, most receivers look to any old almanac and at least try to use it to get started. Their fixes may be less than stellar for a while. After acquiring an initial satellite, or 2 (or 3 or 4) they download a satellite-specific ephemeris that has more precise orbital elements. Every satellite transmits the Almanac. Each satellite individually transmits ITS OWN ephemeris.

As soon as initial acquisition of signal, and SS lock, the receiver begins downloading a new almanac. It's going to take 13 minutes to get the data down. It can take up to 5 minutes, per satellite, to download new ephemeris data. THEN the receiver can reliably start computing a position.



A lot of the consumer-grade hardware (including Garmin) look into non-volatile memory for old almanac and ephemerides data, and start doing position calculations as soon as they identify the satellite Gold Codes (and thus, the satellites). If the ephemerides are similar, or unchanged, fixes will be accurate. If there's a change, your position may notably jump when the new ephemerides are received.

73, gerry

--

Gerry Creager -- gerry@cs.tamu.edu  
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## 777. [aprssig] Re: Feature request: hardware status alarms

From: "Ralph R. Swick" <kdism@ziplink.net>  
Date: Thu, 28 Dec 2000 10:59:50 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126697-2000.12.28-10.12.48--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 10:13 AM 12/28/2000 -0500, Bob Bruninga wrote:  
>Good ideas. Ill put them on the consider list..

Thanks, Bob. (I'm continually amazed at how quickly you respond to aprssig. I can barely keep up with \*reading\* everything, let alone responding to it!)

>... At any  
>time you see the TNC not responding to APRSdos sending. then there are two  
>easy fixes to re-sync them...  
>  
>1) Hit alt-SETUP-TNC. THAT is what it is there for...  
>2) hit OPS-COM-TNC and when you get the blue screen and command prompt,  
>hit ESC back into APRSdos.

When I notice that my TNC has gotten into a confused state, I first do O-C-T to see if I can talk to it. The most common symptom is that a simple <CR> echos as "!!". This is what I described as "like a baud rate mismatch". At this point, I just power cycle the TNC and use Alt-S-T to reinitialize it.

Our request is for a visible and audible alarm that indicates these steps are necessary. In my case, a frequent visible alarm is that most of the LEDs on the front of my KAM are lit continuously. But an obvious LED pattern like that one doesn't always occur.

73,

-Ralph

(who is frustrated that Lyris does not appear to provide citable URIs for messages in its archives, thus making itself less useful to the Web.)

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## 778. [aprssig] Re: Tracker in Space

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>  
Date: Thu, 28 Dec 2000 11:07:47 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126700-2000.12.28-10.21.50--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 08:45 AM 28-12-00 -0600, Ralph Tullo wrote:  
>The big question is can a GPS handle a speed of 14,000 mph.

Sure; piece of cake. I managed the first NASA satellite to use GPS as a

sole tracking method - designed 10 years ago, launched 4, & still flying.  
The technology is a now obsolete Motorola GPS.

>The second question is can the ISS actually see enough the GPS signals that  
>are beamed at the earth. Remember, you need 6 satellites for a lock.

It can actually see more - less horizon to get in the way - although the  
geometry is a little tougher.

Bob Kirk  
N30ZB

---

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Questions regarding the SIG go to the SIG administrator: [wallou@tapr.org](mailto:wallou@tapr.org)

---

## 779. [aprssig] Re: APRS on Internatil Space Station

From: Robert Kirk <[kirk@neptune.gsfc.nasa.gov](mailto:kirk@neptune.gsfc.nasa.gov)>  
Date: Thu, 28 Dec 2000 11:36:12 -0800  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-126726-2000.12.28-10.50.10--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-126726-2000.12.28-10.50.10--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

At 10:24 AM 28-12-00 -0500, Bob Bruninga wrote:  
>...

>True, In the early days of APRS I tried to encourage a GPS for MIR,  
>Shuttle and ISS, but soon realized that it was pointless.. since the  
>paperwork would be horrendous, cost in millions, and bureaucracy would  
>take 10 years to do it. Whereas, origintaing the packet on the ground  
>could be done at no cost and yet have the same effect to all observers  
>everywhere...

Bob... I'd be surprised that in this age ISS didn't have GPS aboard for a  
number of reasons, but you may be right; NASA's sometimes slow to pick up  
newer technology.

>Practically speaking, satellites are fixed objects that do not "move" at  
>all (unless the fire an engine). Yes, they have velocity, but its  
>position is 100% predictable at any time. As such, putting a GPS  
>on a satellite is no more practice than putting one on one's house.  
>True, ISS does maneuver, but within minutes NORAD updates the keps, ...

It's actually very practical. Satellites do drift even when you don't do  
intentional maneuvering, and the only way to check on the drift to make  
your orbit corrections is to track the vehicle. Here are 3 ways to track:

Your own dedicated tracking system using on-board transponders to your  
ground stations. (Standard NASA)

Radar "skin" tracking without transponders by your friendly NORAD radars.  
(Mostly a backup since NORAD is more worried about the other guys  
satellites and doesn't give your service first priority.)

Position reports from on-board GPS(s).

The last is especially attractive since you don't have to rely on an  
expensive tracking network or support from another agency. It's also  
extremely accurate and can even be used for spacecraft attitude control  
with 2 or 3 separated onboard units.

Bob Kirk  
N30ZB

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## 780. [aprssig] Message format

From: David Locke <[locked@intplsrv.net](mailto:locked@intplsrv.net)>  
Date: Thu, 28 Dec 2000 10:59:30 -0600

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126771-2000.12.28-11.15.44--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I know this is a little off topic but I know we've discussed it here before.

Does anyone remember how to change the default message format from Rich-text to SMTP in Outlook 97. I have the book on 2000 and it's not the same as near as I can tell.

Again, apologies for an off topic post. But I'm still getting posts from the group and I'm having in house problems with it. I thought I might kill two birds with one rock!

73,  
Dave Locke  
KC5SII

---

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---

## 781. [aprssi] Re: Message format

From: "Jeff Brenton" <jeffb@espi.com>  
Date: Thu, 28 Dec 2000 11:12:40 -0600  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Cc: "aprssi" <aprssi#tapr.org>  
Message-ID: <LYR842-126772-2000.12.28-11.24.30--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> change message format

For all Microsoft 32-bit-ish mail clients that use the Address Book, make sure that APRSSIG (and other lists you belong to) have entries in the address book.

Next, go to the particular address book entry, and look at the "Name" tab... you'll see a box in the lower left corner of the dialog box, marked "Send E-Mail using plain text only". Make sure it is checked...

After that, Outlook et al will NOT use RTF/HTML to send mail to APRSSIG or other addresses so marked.

Jeff Brenton  
President,  
Engineered Software Products, Inc  
<http://espi.com>  
Questionable web page: <http://dididahdahdidit.com>

Liberalism grants you the freedom to advocate any idea\*.  
\* Please see <http://www.dididahdahdidit.com/except.php> for a current list of exceptions

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---

## 782. [aprssi] baycom/WinAPRS/AGWPE help!

From: "Bob Aldridge" <kf4dvg@hotmail.com>  
Date: Thu, 28 Dec 2000 12:53:37  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-126780-2000.12.28-13.05.51--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Greetings!

Looking for assistance in getting my baycom type modem run while using WinAPRS and the AGW packet engine w/drivers (Win 95 loaded). I have "all" loaded as far I as I know- but the system isn't rcv'ing (displaying) anything on the map. Modem works fine rcv'ing APRS data using the DOS packet software.  
Help!

73s Bob KF4DVG/ M1CQW

---

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### 783. [aprssig] BIG PROJECT STUFF - FIX TO ISS APRS

From: "David Dobbins" <ddobbins@localaccess.com>  
Date: Thu, 28 Dec 2000 10:52:17 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126781-2000.12.28-13.13.50--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Last summer we set up an HF/VHF tracker with a KAM Plus and Garmin GPS for the Big Ride Across America bicycle event. The trip started from Seattle in June, and ended in DC in early August. The tracking data was available on a special web page on findu, and was used by family/friends to track the event from around the world. The tracks were always up-to-date near the VHF covered areas, and like-wise nearly almost up-to-date with HF coverage. We considered an option of using SUNSAT or one of the other APRS-enabled satellites, but ruled out these options because it required too much human intervention (changing freqs, changing paths, etc). Typically there was only one person, normally a ham operator, driving this vehicle, and his/her eyes needed to be on the road, not looking up pass schedules and adjusting radio/tnc settings. If we could set up the tracker (no computer) and train the operator where the on/off buttons were located, we had a much better chance of success on this long haul.

Before we see any major success in big project ideas, like tracking pleasure boats across the seas using satellites, we'll need the satellite digi to be on 144.39 and not require much operator intervention to get the signals through.

The solution for APRS success on the ISS is simple: install another packet station (on 144.39), tucked away in some dark corner, with a GPS and KPC-3, set to digi on ISS. This way we'll all be able to watch the ISS on our APRS screens, and if we have an alternate path set to ISS, it will become popular and used frequently because it won't be too difficult to use. Having the digipeat enabled on the ISS packet system now is neat, but it will only be used by a few people.

Why don't we just approach NASA and hand them the package marked "Expedite shipment to ISS"? How hard can it be for the astronauts to plug in the cigarette lighter, slap the mag mount on the roof and GPS on the dashboard? Well, maybe there's a few more details to work out, but this is not rocket science, and it'll work great as long as the operators here on the ground don't have to push alot of buttons, change freqs, change settings, etc. to make it work.

Regards,

David/K7GPS  
NWAPRS Coordinator

---

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---

### 784. [aprssig] Re: BIG PROJECT STUFF - FIX TO ISS APRS

From: "Mark Turner" <mark@kram.org>  
Date: Thu, 28 Dec 2000 19:21:27 -0000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126782-2000.12.28-13.33.42--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

David said....

>

> Before we see any major success in big project ideas, like tracking pleasure  
> boats across the seas using satellites, we'll need the satellite digi to be  
> on 144.39 and not require much operator intervention to get the signals  
> through.

....auto-switching to 144.8MHz as it passes near the UK so that it does "not require much operator intervention to get the signals through", unless you just want it to work over the US? I suspect there may be other "standard"

APRS frequencies elsewhere too. :)

Nice idea though.

Cheers,

Mark.

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## 785. [aprssi] Cruising the Northern Bahamas

From: "Vic Fraenckel" <[vfraenc1@nycap.rr.com](mailto:vfraenc1@nycap.rr.com)>  
Date: Thu, 28 Dec 2000 15:07:11 -0500  
To: "TAPR APRS Special Interest Group" <[aprssi@lists.tapr.org](mailto:aprssi@lists.tapr.org)>  
Message-ID: <[LYR842-126785-2000.12.28-14.19.12--lyris.aprssi#tapr.org@lists.tapr.org](mailto:LYR842-126785-2000.12.28-14.19.12--lyris.aprssi#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

I have charted a sailboat for a two week cruise in the Northern Bahamas beginning January 8. I have been trying to find out if there is any APRS or voice activity there. Is it worth taking my D700? Any advice would be appreciated

TIA

Vic

---

Victor Fraenckel - The Windman                      [vfraenc1@nycap.rr.com](mailto:vfraenc1@nycap.rr.com)  
KC2GUI                                                      [www.windsway.com](http://www.windsway.com)

Home of the WindReader Electronic Theodolite  
Read the WIND

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---

## 786. [aprssi] KPC-3

From: Jim Sanford <[wb4gcs@amsat.org](mailto:wb4gcs@amsat.org)>  
Date: Thu, 28 Dec 2000 15:12:07 -0500  
To: "TAPR APRS Special Interest Group" <[aprssi@lists.tapr.org](mailto:aprssi@lists.tapr.org)>  
Message-ID: <[LYR842-126786-2000.12.28-14.24.14--lyris.aprssi#tapr.org@lists.tapr.org](mailto:LYR842-126786-2000.12.28-14.24.14--lyris.aprssi#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Hi:

I've just been given a non-functioning KPC-3 (not 3+) for use in building out aprs infrastructure -- if I can get it working.

Kantronics doesn't support it anymore; does anybody have manuals/schematics for loan or copy?

Thanks & 73,  
Jim  
[wb4gcs@amsat.org](mailto:wb4gcs@amsat.org)

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## 787. [aprssi] Re: Cruising the Northern Bahamas

From: "Clayton H. Owen" <[aa3jy@erols.com](mailto:aa3jy@erols.com)>  
Date: Thu, 28 Dec 2000 15:51:43 -0500  
To: "TAPR APRS Special Interest Group" <[aprssi@lists.tapr.org](mailto:aprssi@lists.tapr.org)>  
Message-ID: <[LYR842-126788-2000.12.28-15.04.57--lyris.aprssi#tapr.org@lists.tapr.org](mailto:LYR842-126788-2000.12.28-15.04.57--lyris.aprssi#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

Clayton H. Owen wrote:  
>  
> Vic Fraenckel wrote:  
> >  
> > I have charted a sailboat for a two week cruise in the Northern Bahamas  
> > beginning January 8. I have been trying to find out if there is any APRS or  
> > voice  
> > activity there. Is it worth taking my D700? Any advice would be  
> > appreciated  
> >  
> > TIA  
> >  
> > Vic  
>  
HF APRS would be your best bet..FYI..contact Bahamas Telecommunications Corporation(BATELCO), Radio Licensing Department, Atten:Mr. T.M.Deveaux Box N 3048, Nassau, NP, Bahamas for a Bahama reciprocal license while in Bahamian waters  
  
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## 788. [aprssig] Re: Tracker in Space

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Thu, 28 Dec 2000 08:10:56 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126790-2000.12.28-15.09.13--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain  
  
At 08:45 AM 12/28/00 -0600, Ralph Tullo blasted the following out into the ether:  
>The big question is can a GPS handle a speed of 14,000 mph.

Well -- doesn't the STS use GPS in there? I wonder if they have something that will work...

>The second question is can the ISS actually see enough the GPS signals that >are beamed at the earth. Remember, you need 6 satellites for a lock.

I would expect this to be a non-issue. Remember, the ISS is between 180 and 250 miles up and the GPS birds are about 10,000 miles up.

7 3  
Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

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## 789. [aprssig] Re: [Fwd: [Packet] Big Event OPPORTUNITY! :o)]

From: Bob Bruninga <bruninga@usna.edu>  
Date: Thu, 28 Dec 2000 16:30:14 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: Frank W Henrikson <kl0sw@arll.net>, Rich Armstrong <ne7t@gci.net>, Ed Back <edbve6nh@ptialaska.net>, Larry Halvarson <lhalv@kenai.net>, John Wolfe <jwolfe@bigfoot.com>, TAPR APRS Special Interest Group <aprssig@tapr.org>  
Message-ID: <LYR842-126792-2000.12.28-15.44.32--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain  
  
Here is a picture of what an amateur satellite tracker (without a GPS) (or vicinity tracker) would look like. I think it could be built into something smaller than a coke can and run 5 days on a single 9v battery. Just depends on what you use for the 2 watt XMTR.

See photo... <http://web.usna.navy.mil/~bruninga/iditerod.jpg>

By adding many switches to the telemetry ports and encode all kinds of previously agreed messages, positions or whatever can be sent out about 10 times a day, unattended and automatic...

Just an idea...

de WB4APR, Bob

-----  
At 10:04 AM 12/28/00 -0500,Ed Cole wrote

>Without the GPS it might not be as useful for finding a lost musher or a  
>lost team/sled {musher fell off}. For "canned" messages, probably could  
>make a switch control box to keep it simple for the musher. If the  
>tracker  
>isn't completely auto, I wonder what regs say about an unlicensed person  
>changing or initiating xmsns, though? Maybe no problem if an emergency  
>situation needing SAR. Certainly a few things to think about and work  
>out.  
>. Thanks for the suggestions.

---

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---

## 790. [aprssig] Re: APRS on Internatil Space Station

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Thu, 28 Dec 2000 16:36:18 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-126794-2000.12.28-15.48.38--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Thu, 28 Dec 2000, Earl Needham wrote:

> > > ..here in New Mexico, I'd probably NEVER hear anyone using aprsdata...  
  
> >One station on the EAST and one on the WEST coast would hit the ISS with  
> >its posits over the entire USA and 1000 miles offshore... Everyone  
> >everywhere would see it moving.. on their APRS displays.  
>  
> That might work, but the major problem here is that I'm at least 4  
> hops from any major city, and sometimes as many as 7. People transmitting  
> these positions usually use a much shorter path than that...

I may be missreading what you are saying, but I think you still don't see what I am talking about. The APRSdata POSITS for the SATELLITE are digipeated off of the satellite. Thus everyone within the more than 2 million square miles (most of the USA) will see the posits LIVE from the satellite (via its digipeater)... from just one APRSdata site.

One on each coast would cover the entire USA and 1500 miles out over the oceans...

de WB4APR, Bob

---

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## 791. [aprssig] Re: Feature request: hardware status alarms

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Thu, 28 Dec 2000 16:38:49 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-126795-2000.12.28-15.51.47--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Thu, 28 Dec 2000, Ralph R. Swick wrote:

>  
> When I notice that my TNC has gotten into a confused state,  
> I first do O-C-T to see if I can talk to it. The most common  
> symptom is that a simple <CR> echos as "!!". This is what  
> I described as "like a baud rate mismatch". At this point, I

> just power cycle the TNC and use Alt-S-T to reinitialize it.

Yes! I remember seeing that on the KAM lots of times. I cant remember what it was... But I think a CTRL-S or CTRL-Q would knock it loose... Wich I could remember...

>

> Our request is for a visible and audible alarm that indicates  
> these steps are necessary. In my case, a frequent visible  
> alarm is that most of the LEDs on the front of my KAM are  
> lit continuously. But an obvious LED pattern like that one  
> doesn't always occur.

>

> 73,  
> -Ralph  
> (who is frustrated that Lyris does not appear to provide  
> citable URIs for messages in its archives, thus making  
> itself less useful to the Web.)  
>

de WB4APR@amsat.org, Bob

See my APRS LIVE pages <http://web.usna.navy.mil/~bruninga/aprs.html>  
See APRS SATELLITES <http://web.usna.navy.mil/~bruninga/astars.html>  
See MIM/Mic-E/Mic-Lite <http://www.tapr.org/tapr/html/mic-e.html>

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## 792. [aprssig] Re: 10 Meter 300 baud APRS frequency

From: "Tom Clarke" <fclarke@erols.com>  
Date: Thu, 28 Dec 2000 16:46:12 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126796-2000.12.28-15.59.11--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Sounds like a plan. Will be on from the DC area.

73 de Tom/ W40KW/W3PQT

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## 793. [aprssig] ISS digi problem with 144.39

From: K3for@aol.com  
Date: Thu, 28 Dec 2000 16:49:45 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126797-2000.12.28-16.02.20--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

K7GPS wrote:

>>The solution for APRS success on the ISS is simple: install another packet station (on 144.39), tucked away in some dark corner, with a GPS and KPC-3, set to digi on ISS. This way we'll all be able to watch the ISS on our APRS screens, and if we have an alternate path set to ISS, it will become popular and used frequently because it won't be too difficult to use. Having the digipeat enabled on the ISS packet system now is neat, but it will only be used by a few people.

Regardless of the path...

At that altitude, the 144.39 receiver would hear hundreds of transmissions in its footprint and never get its squelch closed long enough to know when to transmit, and would likely have too much inbound collision of data to know what to digipeat.

Also, at that altitude, transmitting on 144.39 would likely not be heard often over the strong local activity.

While it is cumbersome to have celestial digipeating on different freqs, these are the obvious reasons for it.

I have listened on 144.39 at 30,000 feet, and it's too deafening to make heads or tails - TNC couldn't even capture anything reliably.



Skip/K3F0R  
Annapolis

---

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## 794. [aprssig] APRS Emission Designation?

From: "Ev Tupis (W2EV)" <propnet@greeceny.com>  
Date: Thu, 28 Dec 2000 15:53:38 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126800-2000.12.28-16.08.29--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

What is the actual mode designation for what we do on APRS?  
Things were much simpler when it was just F3. Now it seems  
that you need a secret decoder ring to figure out what  
emission designations are most appropriate.

So...what's the emission designation for FM packet on  
144.39-MHz with a deviation of 4-khz? Anyone?

Ev, W2EX-Mozilla-Status: 0009 16:34:05 2000  
X-Mozilla-Status: 0801  
X-Mozilla-Status2: 00000000  
FCC: /C|/Program Files/Netscape/Users/propnet/mail/Sent  
Message-ID: <3A4BB1CD.13C0DAAE@greeceny.com>  
Date: Thu, 28 Dec 2000 16:34:05 -0500  
From: "Ev Tupis (W2EV)" <propnet@greeceny.com>  
X-Mozilla-Draft-Info: internal/draft; vcard=0; receipt=0; uuencode=0; html=0; linewidth=0  
X-Mailer: Mozilla 4.75 [en] (Win98; U)  
X-Accept-Language: en  
MIME-Version: 1.0  
To: Roger Barker <roger@peaksys.co.uk>  
Subject: Re: BEACONet Meteor Mode  
References: <3A4A0CE0.BEF70BB@greeceny.com> <M9ygxIAQzwS6Ewjs@peaksys.co.uk>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

The meteor mode in BEACONet is different from that of  
conventional ssb/cw meteor scatter. It is those differences  
that drive my thoughts about randomizing the TX start times  
on a minute-by-minute basis.

When I'm on SSB, running an MS sched, I know who I'm looking  
for and when to listen for them (even or odd 15-second  
slots). The process can be likened to "hunting" or  
"stalking".

On BEACONet, the process is more like "fishing". We bathe  
the sky with RF with the hopes that someone else is out  
there listening while we are transmitting. In the USA, we  
maximize this opportunity by using Bob's "quadrant method"  
of dividing the continent by 4 and assigning a 15-second TX  
slot to each quadrant.

The "problem" issues with the Quadrant Method are twofold:

- (1) Two stations that are in meteor range, but also in  
the same quadrant will never hear each other (if  
their system clocks stay on time).
- (2) Some people's system clocks will creep over a period  
of several days of operation, further compounding the  
problem of limiting the effective RX time as stations  
who are in range of each other, unwittingly "spread  
out" beyond their assigned 15-second time slot.

I thought of the Random TX Slot idea as a result of  
remembering how Ethernet deals with unexpected collisions  
(wait a random period of time and resend...an excellent  
method if everyone does the same thing).

Within that context, would you consider working this "Random  
Time Slotting"(1) method into the "Saturation Mode"(2)  
(Meteor Mode) code as a third mode option?

Ev

- (1) 1 Input A: Duration of Burst (in seconds)

- (2) I refer to "Saturation Mode" instead of "Meteor Mode" because I'm thinking of experimenting with it during non-meteor events over pathsX-Mozilla-Status: 0009 explore with more promiscuity than normal.

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From: Bob Bruninga <bruninga@usna.edu>  
Date: Thu, 28 Dec 2000 16:59:45 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126801-2000.12.28-16.12.08--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

A027 and U014 VOice passes  
U022 digipeating  
S035 APRS packeting feeding into FINDU.COM

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From: "Richard Amirault" <ramirault@erols.com>  
Date: Thu, 28 Dec 2000 17:39:58 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126807-2000.12.28-16.50.27--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

From: "Robert Kirk" <kirk@neptune.gsfc.nasa.gov>  
Subject: [aprssig] Re: Tracker in Space

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Questions regarding the SIG go to the SIG administrator: [wallou@tapr.org](mailto:wallou@tapr.org)

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126808-2000.12.28-16.54.27--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bob Bruninga wrote:

>  
> > > Vic Fraenckel wrote:  
> > >  
> > > I have chartered a sailboat for a two week cruise in the Northern Bahamas  
> > > beginning January 8. I have been trying to find out if there is any APRS  
> > > voice activity there. Is it worth taking my D700?  
>  
> Certainly! Work over 25 satellite passes a day with it! Tell friends to  
> watch you on FINDU.COM  
>  
> A027 and U014 Voice passes  
> U022 digipeating  
> S035 APRS packeting feeding into FINDU.COM  
>  
Try aiming your little Arrow antenna at a fixed satellite while sail'n  
in the Trade Winds..maybe at anchor..but whose go'n watch'n the  
times..especially 'Island' time for the next pass..I still put my money  
on HF...

---

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---

## 798. [aprssig] Re: [Fwd: [Packet] Big Event OPPORTUNITY! :o)]

From: Bob Bruninga <bruninga@usna.edu>  
Date: Thu, 28 Dec 2000 17:41:28 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "Edward R. Cole" <a17eb@ptialaska.net>, Frank W Henrikson <kl0sw@arll.net>,  
Rich Armstrong <ne7t@pci.net>, Ed Back <edbve6nh@ptialaska.net>,  
Larry Halvarson <lhalv@kenai.net>,  
TAPR APRS Special Interest Group <aprssig@tapr.org>  
Message-ID: <LYR842-126809-2000.12.28-16.55.11--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Thu, 28 Dec 2000, John Wolfe wrote:

> Thanks Bob...I'm intrigued! I'll pass it on to the rest of my group. We  
> would still need in/out times at each checkpoint, and number of dogs, dogs  
> dropped, etc. But if one of the mushers slipped out of a checkpoint in the  
> middle of the night, it might be nice to see how far down the trail they've  
> gone, if a satellite pass comes around at night.

Hummh... I see.. Too bad you cant just send up an Airplane every now and  
then to serve as a digi. Then you would have connectivity all over the  
place for really banging out some traffic... Its only a radio and TNC...  
Easy to put on a plane...

bob

---

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---

## 799. [aprssig] Re: Tracker in Space

From: BordingK@aol.com  
Date: Thu, 28 Dec 2000 17:51:24 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126811-2000.12.28-17.04.36--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Since the GPS SVs are at 10,700 miles altitude the ISSs 200-230 mile orbit is  
not much of a factor. That plus the radio horizon is pretty good on orbit.

Sure a GPS would work in orbit, just not one of the cheaper Garmins! ha ha.

DE W5KNB  
Ken

---

## 800. [aprssig] Airplane digis

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Thu, 28 Dec 2000 15:57:49 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126821-2000.12.28-18.56.07--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 05:41 PM 12/28/00 -0500, Bob Bruninga blasted the following out into the ether:  
><snip>  
>Hummh... I see.. Too bad you cant just send up an Airplane every now and  
>then to serve as a digi. Then you would have connectivity all over the  
>place for really banging out some traffic... Its only a radio and TNC...  
>Easy to put on a plane...

Speaking of which --

It's too bad that every airliner flying doesn't have a digi on it. We could use paths like AIR4-4 to get through 4 airliners! Probably get 1000+ miles that way.

Or else nothin', as the digi would hear so much it might never respond...<G>

7 3  
Earl

Earl Needham, KD5XB      mailto:KD5XB@AMSAT.ORG  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

---  
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---

## 801. [aprssig] Re: [Fwd: [Packet] Big Event OPPORTUNITY! :o)]

From: "Manuel Holland" <manuelh@ionet.net>  
Date: Thu, 28 Dec 2000 04:40:33 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126835-2000.12.28-22.00.56--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Is this a possibility for a little satellite used to fillout / balance a payload?

----- Original Message -----  
From: Bob Bruninga <bruninga@usna.edu>  
To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Cc: Frank W Henrikson <k10sw@arrl.net>; Rich Armstrong <ne7t@gci.net>; Ed Back <edbve6nh@ptialaska.net>; Larry Halvarson <lhalv@kenai.net>; John Wolfe <jwolfe@bigfoot.com>; TAPR APRS Special Interest Group <aprssig@tapr.org>  
Sent: Thursday, December 28, 2000 3:30 PM  
Subject: [aprssig] Re: [Fwd: [Packet] Big Event OPPORTUNITY! :o)]

> Here is a picture of what an amateur satellite tracker (without a GPS)  
> (or vicinity tracker) would look like. I think it could be built into  
> something smaller than a coke can and run 5 days on a single 9v battery.  
> Just depends on what you use for the 2 watt XMTR.  
>  
> See photo... <http://web.usna.navy.mil/~bruninga/iditerod.jpg>  
>  
> By adding many switches to the telemetry ports and encode all kinds of  
> previously agreed messages, positions or whatever can be sent out about  
> 10 times a day, unattended and automatic...  
>  
> Just an idea...  
>  
> de WB4APR, Bob  
> -----  
> At 10:04 AM 12/28/00 -0500,Ed Cole wrote  
>  
> >Without the GPS it might not be as useful for finding a lost musher or a  
> >lost team/sled {musher fell off}. For "canned" messages, probably could  
> >make a switch control box to keep it simple for the musher. If the  
> >tracker

> > isn't completely auto, I wonder what regs say about an unlicensed person  
> > changing or initiating xmsns, though? Maybe no problem if an emergency  
> > situation needing SAR. Certainly a few things to think about and work  
> > out.  
> >. Thanks for the suggestions.  
>  
>  
>  
> ---  
> You are currently subscribed to aprssig as: manuelh@ionet.net  
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org  
> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org  
>  
>

---  
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---

## 802. [aprssig] GPS on ISS (was:Re: APRS on Internatil Space Station)

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Thu, 28 Dec 2000 08:36:00 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126855-2000.12.28-22.56.20--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 10:24 AM 12/28/00 -0500, Bob Bruninga blasted the following out into the ether:  
><snip>  
>True, In the early days of APRS I tried to encourage a GPS for MIR,  
>Shuttle and ISS, but soon realized that it was pointless.. since the  
>paperwork would be horendous, cost in millions, and bureaucracy would  
>take 10 years to do it.

Just out of curiosity -- are they getting to be any easier to deal with now? I wonder that no astronaut has taken their GPS-3+ or something up just to see what it does.

Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

---  
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---

## 803. [aprssig] Re: APRS on Internatil Space Station

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Thu, 28 Dec 2000 08:32:44 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126854-2000.12.28-22.56.18--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 10:24 AM 12/28/00 -0500, Bob Bruninga blasted the following out into the ether:  
>On Thu, 28 Dec 2000, Earl Needham wrote:  
><snip>  
> >        Besides, out here in New Mexico, I'd probably NEVER hear anyone else  
> > using aprsdata.exe...  
>  
>One station on the EAST and one on the WEST coast would hit the ISS with  
>its posits over the entire USA and 1000 miles offshore... Everyone  
>everywhere would see it moving.. on their APRS displays.  
>  
>Hummh... Maybe I should go ahead and put an APRSdata on the SUNSAT and  
>U022 UPLINKS so they can be reporting their positions now... Hummh....

That might work, but the major problem here is that I'm at least 4 hops from any major city, and sometimes as many as 7. People transmitting these positions usually use a much shorter path than that, and I don't see them.

I guess the solution is to set up a second computer, radio, and TNC, to just run APRSTK so I can see the stuff here...

But it sure seems like a lot of stuff -- P233/MMX already, Athlon 800 MHz in work, and yet another machine? I'm getting too many computers (confusers! <G>) here!

7 3  
Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

---

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---

#### 804. [aprssig] Re: APRS on Internatil Space Station

From: Earl Needham <[KD5XB@AMSAT.ORG](mailto:KD5XB@AMSAT.ORG)>  
Date: Thu, 28 Dec 2000 14:47:43 -0700  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-126856-2000.12.28-22.56.28--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-126856-2000.12.28-22.56.28--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

At 04:36 PM 12/28/00 -0500, Bob Bruninga blasted the following out into the ether:

>>snip>

>I may be misreading what you are saying, but I think you still don't see  
>what I am talking about. The APRSdata POSITS for the SATELLITE are  
>digipeated off of the satellite. THus everyone within the more than 2  
>million square miles (most of the USA) will see the posits LIVE from the  
>satellite (via its digipeater)... from just one APRSdata site.

OH HO!!!!

You're absolutely right! I thought you were talking about putting the data on the internet feed and having all the IGATEs transmit it. With the situation as described above, I can probably set up a station specifically to receive the satellite info...

7 3  
Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

---

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---

#### 805. [aprssig] Re: Installing Win95 on laptop WITHOUT a cdrom drive.

From: [WA8LMF1@aol.com](mailto:WA8LMF1@aol.com)  
Date: Fri, 29 Dec 2000 00:51:11 EST  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <[LYR842-126884-2000.12.29-00.03.29--lyris.aprssig#tapr.org@lists.tapr.org](mailto:LYR842-126884-2000.12.29-00.03.29--lyris.aprssig#tapr.org@lists.tapr.org)>  
Rendered body type: text/plain

In a message dated 12/26/00 11:22:54 AM Pacific Standard Time, [Qrpvhf@aol.com](mailto:Qrpvhf@aol.com) writes:

<< No way as fast, after computing the LapLink transfer at a max speed of 19,200bps, it worked out to a transfer time of about 16hours! The ZIP to HD transfer took 15 minutes. >>

PARALLEL LapLink runs at an effective 500,000 BPS on modern parallel ports capable of bi-directional (8-bit) transfers. No one in his right mind would use the serial mode for anything! You can move the entire W95 distribution in about 15-20 Mins with the parallel mode.

---

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---

## 806. [aprssig] Re: Cruising the Northern Bahamas

From: RMckni8527@aol.com  
Date: Fri, 29 Dec 2000 01:20:02 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: aprssig@tapr.org  
Message-ID: <LYR842-126888-2000.12.29-00.32.57--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In a message dated 12/28/00 12:10:03 PM Pacific Standard Time, vfraenc1@nycap.rr.com writes:

>  
> I have chartered a sailboat for a two week cruise in the Northern Bahamas  
> beginning January 8. I have been trying to find out if there is any APRS or  
> voice  
> activity there. Is it worth taking my D700? Any advice would be  
> appreciated  
>  
>

Why ruin a perfectly beautiful sail with techno-details like APRS? Just tack and jibe and have a Pina-Colanics.... if you break something, I'm sure you're charter company can't track you on Find-U to come to the rescue... that's too much like James Bond! Relax 'Mon, enjoy the experience - minus all the technology! APRS all you want when you get back home...

---

## 807. [aprssig] Sorry. Technology burp.

From: "Ev Tupis (W2EV)" <propnet@greeceny.com>  
Date: Fri, 29 Dec 2000 06:31:07 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126893-2000.12.29-05.40.38--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I now know what Netscape's eMail does when your connection drops while uploading messages...it munges some together.  
:o( In this case, a request for information and a private note about meteor scatter modes.

While I'm still interested in knowing what the Emission Designation is for Packet radio as used in APRS, the MS issue was resolved quickly, privately (no need to comment on it, even if so inclined). <smile>

Now...I'm off to readjust my level of trust in technology in general... :o)

Ev, W2EV

---

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---

## 808. [aprssig] operating from a cruise ship

From: "wes johnston" <wes@johnston.net>  
Date: Fri, 29 Dec 2000 09:02:26 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126904-2000.12.29-08.22.04--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Was just reading about operating so-35 and wondered what does it take (legally, NOT technically) to operate from a cruise ship in the caribbean? On the open seas, I shouldn't need any license other than my us license right?

---

## 809. [aprssig] Re: operating from a cruise ship

From: "Clayton H. Owen" <aa3jy@erols.com>  
Date: Fri, 29 Dec 2000 09:22:49 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126905-2000.12.29-08.36.11--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

wes johnston wrote:

>  
> Was just reading about operating so-35 and wondered what does it take  
> (legally, NOT technically) to operate from a cruise ship in the  
> caribbean? On the open seas, I shouldn't need any license other than  
> my us license right?

>  
> Wes

That will depend on the registry of the ship..because the ship is  
considered a part of the country in which it is registered.

---

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---

## 810. [aprssig] Re: [Fwd: [Packet] Big Event OPPORTUNITY! :o)] (fwd)

From: Bob Bruninga <bruninga@usna.edu>  
Date: Fri, 29 Dec 2000 09:37:28 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126906-2000.12.29-08.50.14--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Sure, all of our picosats are designed around the MIM module as the  
Telemetry system..

see my web page <http://web.usna.navy.mil/~bruninga/cubesat.html>

bob

On Thu, 28 Dec 2000, Manuel Holland wrote:

> Is this a possibility for a little satellite used to fillout / balance a  
> payload?  
>  
> ----- Original Message -----  
> From: Bob Bruninga <bruninga@usna.edu>  
> To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
>  
> > Here is a picture of what an amateur satellite tracker (without a GPS)  
> > (or vicinity tracker) would look like. I think it could be built into  
> > something smaller than a coke can and run 5 days on a single 9v battery.  
> > Just depends on what you use for the 2 watt XMTR.  
> >  
> > See photo... <http://web.usna.navy.mil/~bruninga/iditerod.jpg>  
> >  
> > By adding many switches to the telemetry ports and encode all kinds of  
> > previously agreed messages, positions or whatever can be sent out about  
> > 10 times a day, unattended and automatic...  
> >  
> > Just an idea...  
> >  
> > de WB4APR, Bob

---

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---

## 811. [aprssig] RE: operating from a cruise ship

From: "Paul E. Knupke, Jr." <pk@ij.net>  
Date: Fri, 29 Dec 2000 09:40:18 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126908-2000.12.29-08.54.15--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Permission to operate on a vessel will require two things. You need to get  
a reciprocal license from the country the ship is registered to. If the



ship is registered to a signee of the CEPT agreement you automatically have reciprocal privileges.

You must also gain the permission of the captain to operate aboard.

When the boat is docked in any port and within the territorial waters (varies by country) you must have a reciprocal license from that country. If you are docked (or in the territorial waters) of the USVI or Puerto Rico your US license is valid.

Remember that to get reciprocal licensing can take some time in some countries so don't expect to get permission on the spot. Check the ARRL web page for information on getting a reciprocal license. Some countries allow it by mail, some do not, some charge a fee, while others do not.

73  
Paul  
N4PK

-----Original Message-----

From: bounce-aprssid-19964@lists.tapr.org  
[mailto:bounce-aprssid-19964@lists.tapr.org] On Behalf Of wes johnston  
Sent: Friday, December 29, 2000 9:02 AM  
To: TAPR APRS Special Interest Group  
Subject: [aprssid] operating from a cruise ship

Was just reading about operating so-35 and wondered what does it take (legally, NOT technically) to operate from a cruise ship in the caribbean? On the open seas, I shouldn't need any license other than my us license right?

Wes

---

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Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

---

## 812. [aprssid] new gps freqs

From: Wes Johnston <kd4rdb@usa.net>  
Date: 29 Dec 00 10:28:01 EST  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-126912-2000.12.29-09.43.16--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

FYI:

A summary of the new GPS signals to be implemented in the near future.

<http://www.gpsworld.com/1000/1000shaw.html>

Wes

Karl was the only Marx brother who never smiled.

---

Get free email and a permanent address at <http://www.netaddress.com/?N=1>

---

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---

## 813. [aprssid] Re: Weather setup for WinAPRS as a igate?

From: Qrpvhf@aol.com  
Date: Fri, 29 Dec 2000 11:20:27 EST  
To: "TAPR APRS Special Interest Group" <aprssid@lists.tapr.org>  
Message-ID: <LYR842-126920-2000.12.29-10.32.48--lyris.aprssid#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In a message dated 12/29/00 8:50:34 AM Eastern Standard Time, N1WTQ@arrl.net writes:

Well apparently others in the APRS world has made the main provider of this information mad so know the web page providing the setup information is non-functional so that the rest of us that did like the weather data can't find any information as to how to set it up on any future igates and we might

possibly loses the data feed eventually.

PS: My apparent disgust with this situation is not directed at you Andy in any way. I am presently fighting a uphill battle to filter down the weather data feed to a point that is small enough not to annoy the ones who don't care for it but still have enough for those that do want it, on my igate as we speak.

> I was wondering if you ever got an answer to your question I can't seem to  
> see any posted to the SIG ???  
>  
> I Too Was Curious about setting up and I-Gate at work soon... and would  
> like to hear any Answers you may have gotten Privately???

Jacob Tennant,K8JWT

---

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---

## 814. [aprssig] Who is stealing out ideas :-)

From: Carl Taylor <carl@bellsouth.net>  
Date: Fri, 29 Dec 2000 12:35:58 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126924-2000.12.29-11.48.12--lyris.aprssig@lists.tapr.org>  
Rendered body type: text/plain

TNPC's Editor-in-Chief is Dan Butler, founder and owner of PlanB Group in Texas. Dan is a Webmaster by trade with a focus on marketing and usability. If you have an interest in putting your business on the net, are looking for ideas for increasing your Web site's usability, or just want to keep up with some of the issues we run into as we grow TNPC and increase our marketing then please sign up for the periodic email Dan will be sending along these lines. The first issue is scheduled to go out early next year. Find out more here:  
<http://www.TheNakedPC.com/t/326/tr.cgi?who2>

Carl Taylor W9ZGU Hollywood, FL.

---

## 815. [aprssig] Wrong content, Sorry(Stealing)

From: Carl Taylor <carl@bellsouth.net>  
Date: Fri, 29 Dec 2000 12:57:21 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126925-2000.12.29-12.09.32--lyris.aprssig@lists.tapr.org>  
Rendered body type: text/plain

\*-\* Do you know where your car is parked? Right now? Soon you'll be able to track your car right from your Web browser. If Junior says he's going to the library you'll be able to check. But if you drive a company car the boss can check to see where you went for lunch. GeoSpatial Technologies, based in Santa Ana, Calif., plans to begin selling the vehicle-tracking device, called GlobalTrax, next fall. It will cost \$150 for installation and \$50 to \$70 in monthly fees.  
<http://www.TheNakedPC.com/t/326/tr.cgi?news2>

Carl Taylor W9ZGU Hollywood, FL.

FYI, The Naked PC is a really good, free computer news letter...

---

## 816. [aprssig] What's this?

From: Qrpvhf@aol.com  
Date: Fri, 29 Dec 2000 13:35:00 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126926-2000.12.29-12.47.26--lyris.aprssig@lists.tapr.org>  
Rendered body type: text/plain

Just seen some traffic go by on my message screen in WinAPRS and was interested as to what it is/was.

FROM:ISS\_ TO:N3ZLL-7 %[52]  
FROM:ISS\_ TO:N30BP-8 %[52]

Your guess is as good as mine...

Jacob Tennant,K8JWT

---

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## 817. [aprssig] Re: What's this?

From: Zachary Michael <kb9uqq\_2000@yahoo.com>  
Date: Fri, 29 Dec 2000 14:24:12 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126932-2000.12.29-13.33.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I have seen a few messages like this myself. Unfortunately I had to restart the computer because WinAPRS crashed, so I can't recall who they were to.

--

Thanks and 73's,  
Zachary Michael, KB9UQQ, KB9UQQ-6, KB9UQQ-7, KB9UQQ-9, KB9UQQ-10  
KB9UQQ-10 (Home) <http://www.findu.com/cgi-bin/find.cgi?call=kb9uqq-10>  
KB9UQQ-9 (Car) <http://www.findu.com/cgi-bin/find.cgi?call=kb9uqq-9>  
KB9UQQ-7 (D7A) <http://www.findu.com/cgi-bin/find.cgi?call=kb9uqq-7>  
KB9UQQ-6 (Laptop) <http://www.findu.com/cgi-bin/find.cgi?call=kb9uqq-6>  
KB9UQQ (Home) <http://www.findu.com/cgi-bin/find.cgi?call=kb9uqq>  
40.25.51 N Degrees Latitude --- 085.15.29 W Degrees Longitude  
Hartford City, Blackford County, Indiana  
Zach's Homepage: <http://www.kb9uqq.net/>  
Zach's APRS Resources: <http://www.aprsinindiana.cjb.net/>  
TAWG Coordinator: <http://www.tawg.org/>  
E-Mail: kb9uqq@tawg.org

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## 818. [aprssig] IGATE TESTING

From: Qrpvhf@aol.com  
Date: Fri, 29 Dec 2000 14:51:17 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126936-2000.12.29-14.03.39--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

WE WILL BE TESTING THE MESSAGE CAPABILITIES OF THE W8CUL-2 IGATE THIS AFTERNOON.

PLEASE FEEL FREE TO MESSAGE TO EITHER K8JWT OR KB8SXY AS THESE ARE THE TESTING STATIONS. K8JWT WILL BE SET UP FOR AUTO-ANSWER.

Jacob Tennant,K8JWT

---

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---

## 819. [aprssig] Magellan GPS Companion with Palm Vx and pocketAPRS

From: "Keith Maton" <feek@bigfoot.com>  
Date: Fri, 29 Dec 2000 19:56:02 -0000  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126938-2000.12.29-14.08.22--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Has anyone used the Magellan GPS Companion  
(<http://celia.mehaffey.com/dale/gpscomp.htm>) with pocketAPRS?

Does it work?

Do I want one?

73

Keith

--

Keith Maton, G6NHU

feek@bigfoot.com  
Visit <http://www.mb7uiv.co.uk>, home of the first licenced APRS gateway in the UK.  
- Careful with that Axe

---

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## 820. [aprssig] Re: What's this?

From: Bob Bruninga <[bruninga@usna.edu](mailto:bruninga@usna.edu)>  
Date: Fri, 29 Dec 2000 15:26:11 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-126955-2000.12.29-14.38.30--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Fri, 29 Dec 2000 Qrpvhf@aol.com wrote:

> Just seen some traffic go by on my message screen in WinAPRS and was  
> interested as to what it is/was.  
>  
> FROM:ISS\_ TO:N3ZLL-7 %[52]  
> FROM:ISS\_ TO:N3OBP-8 %[52]

That is APRSdata sending VOICE announcements for the International Space Station to those two operators. Those mobiles will hear

"ISS LOW" if it is above the horizon but below 10 degrees  
"ISS MEDIUM" if it is between 10 and 20  
"ISS HIGH" if it is above 20 deg

This is in conjunction with the ISS Object that they should also be seeing on their radios, showing the AZ and RANGE to the satellite as well as its frequency and Doppler.

Those stations have indicated a CUSTOM comment #1 to indicate to APRSdata that they have a voice synthesizer in their D700 and want to hear these alerts...

Also check your APRS DX-LIST to see the schedule of any other passes in the next 80 minutes that you can work with a mobile FM rig...

de WB4APR, Bob

---

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## 821. [aprssig] Oregon Scientific WMR-918 & WinAPRS

From: "Ben Miller" <[benm@uniplex.com](mailto:benm@uniplex.com)>  
Date: Fri, 29 Dec 2000 16:16:58 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-126962-2000.12.29-16.26.44--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Ok, I've been waiting for someone to tell me that they've written an interface or figured out how to interface the WMR-918 to WinAPRS. I guess I'm going to try to do one myself unless someone speaks up. Anyone done anything?

Thanks & 73

Ben Miller  
KC5NFU

---

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## 822. [aprssig] Thanks to everyone who helped

From: Qrpvhf@aol.com  
Date: Fri, 29 Dec 2000 19:07:35 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-126981-2000.12.29-18.19.56--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Thanks to everyone who sent messages to either K8JWT or KB8SXY today in our igate testing.

We were having trouble of rf acls not going out to the internet station sending the message but we have now got it fixed...I think?!

Man, this Linux is a bear to learn... but I'm gonna grab it and growl!!!!

Jacob Tennant,K8JWT

---

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## 823. [aprssig] Re: GPS on ISS (was:Re: APRS on Internatil Space Station)

From: BordingK@aol.com  
Date: Fri, 29 Dec 2000 22:42:48 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-127019-2000.12.29-21.55.17--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Wouldn't work! GPS III+s lock out at 99 knots! Need the GPS III Pilot!

DE W5KNB  
Ken

---

## 824. [aprssig] Re: GPS on ISS (was:Re: APRS on Internatil Space Station)

From: John Vause <jdv@iglou.com>  
Date: Sat, 30 Dec 2000 00:00:44 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-127030-2000.12.29-23.13.08--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Ah, the 99mph lockout only applied to the old Garmin SINGLE channel GPS receivers (ex. 38 and 45XL models). The Garmin 12 channel civilian models only lock out at speeds > 999 MPH AND altitudes > 65K ft. to prevent their use as cheap terminal guidance units for ballistic missile warheads.

BordingK@aol.com wrote:

>  
> Wouldn't work! GPS III+s lock out at 99 knots! Need the GPS III  
> Pilot!  
>  
> DE W5KNB  
> Ken

--

\* John Vause KF4ERV jdv@igloudot.com \*  
\* NOTE: email address altered for benefit of Spambots \*  
\* "Necessity is the plea of every infringement of \*  
\* human freedom. It is the argument of tyrants; \*  
\* it is the creed of slaves." -- William Pitt \*

--

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## 825. [aprssig] IGate Connections to second.aprs.net

From: Greg Noneman <greg@clubnet.net>  
Date: Fri, 29 Dec 2000 22:09:22 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-127044-2000.12.30-00.22.26--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The second.aprs.net (socal.aprs.net) server was moved last Wednesday. Accordingly, its local domain name and IP address have changed. IGates that wish to connect to second.aprs.net by way of the local domain name

or IP address need to change their connection tables to be consistent with the new information.

The new info for second.aprs.net is:

IP address: 134.173.254.38  
local domain name: social.aprs.claremont.edu

While reviewing the connections lists of most of the major 24/7 IGates, I found that a number of them are using the outdated information. At a minimum, the following IGates need to updates their lists:

calgary.aprs.net  
concord.aprs.net  
ontario.aprs.net  
orlando.aprs.net  
saopaulo.aprs.net  
tucson.aprs.net  
wv.aprs.net  
wa4dsy.net

The server has been running well since it was installed on Wednesday. The available bandwidth at the new server location should meet the APRS network demands for the foreseeable future.

Greg  
WB6ZSU

---

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---

## 826. [aprssi] Re: IGate Connections to second.aprs.net

From: "Jeff Brenton" <jeffb@espi.com>  
Date: Sat, 30 Dec 2000 01:12:35 -0600  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Cc: "Alt-APRS" <aprs@qth.net>  
Message-ID: <LYR842-127050-2000.12.30-01.25.05--lyris.aprssi@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In conjunction with Greg WB6ZSU's re-announcement of the change to social.aprs.net, aka second.aprs.net, I have updated the "alternative" entries on the Questionable domain.

Connecting to 'aprserv.dididahdhdidit.com' will attach you to one of 5 different servers that have relatively large internet capacity, rotating through the list with each request. Since all servers stay synchronized, it really does not matter which one you attach to, MOST of the time (network outages are the exception).

There are also a dozen or so "direct" connections to various aprsd gateways around the world that have been kind enough to let me know who they are. These use a standardized naming format of 'aprsdXXX.dididahdhdidit.com', where XXX is the identifier of the nearest major airport (again, most of the time). Often, these are sites with LESS bandwidth available - aprsdatl.dididahdhdidit.com, for example, can only handle 20 connections at a time.

To use these sites, you'll want to download the following file:

<http://dididahdhdidit.com/text/aprsxtra.txt>

For Win/MacAPRS users, it goes in your main directory, replacing the one that came with your distribution files. It will add the new entries to your pull-down menu.

For Xastir, APRS-SA, and other users, it will have the information necessary to add them to your available connections.

And I'd like to take advantage of this announcement to ask that any 24/365 aprsd operators out there that are NOT on this list, and who WANT to be, send me a message with the appropriate information (IP, nearest major city, host name), so that I can make the updates.

To qualify, the system has to be able to accept outside connections on ports 10151 and 10152. Those with dynamic IPs must be using something that will allow me to link to a DNS name, such as dyndns.org or dynip.com's service

(not to plug any particular one!).

Jeff Brenton, Amateur Radio call sign KA9VNV  
http://espi.com  
Questionable web page: http://dididahdhdidit.com  
That strange feeling that you've never  
done this before: http://uvajed.espi.com

"Modern Liberalism: The embodiment of an irrational fear of  
letting other people run their own lives."

---

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## 827. [aprssig] Re: GPS on ISS (was:Re: APRS on Internatil Space Station)

From: BordingK@aol.com  
Date: Sat, 30 Dec 2000 08:18:53 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: aprssig@lists.tapr.org  
Message-ID: <LYR842-127067-2000.12.30-07.31.15--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I stand corrected that's good to know that the III+ works above 99 knots.  
Since I won the FREE Garmin III Pilot from aircraftowners.com (not an  
endorsement, but they actually do award those prizes they advertise as  
giveaways!) last year I've never tried my older III+ in flight.

Thanks again to all who responded.

DE W5KNB  
Ken

---

## 828. [aprssig] Pocket PCs (Compaq IPAQ) and APRS

From: BordingK@aol.com  
Date: Sat, 30 Dec 2000 09:15:16 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-127119-2000.12.30-08.28.10--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I'm thinking of selling my Palm IIIC and getting a Compaq IPAQ Pocket PC for  
an aviation application.

Is there a relatively mature APRS application for this type of Pocket  
Computer and OS? Are there maps available? Is this the one that uses  
MapSource maps?

Thanks in advance. Best Wishes for a Wonderful New Year!

DE W5KNB  
Ken

BTW: I'd still li

---

## 829. [aprssig] NWS radar going realtime on Jan.1

From: Robert W Burton <kd4ydc@juno.com>  
Date: Sat, 30 Dec 2000 10:18:01 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-127124-2000.12.30-09.31.52--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Thought this might be of some interest to folks, esp. the ones who like  
to overlay the radar shots onto WINAPRS.  
This came from the GA Skywarn sig.....  
<snip>

As you know some of you know, the NIDS (Nexrad Information Dissemination

Service) contract between the National Weather Service and the radar  
data vendors runs out January 1. In English, it means that anyone  
with a data feed from the National Weather Service (most Universities,  
National Weather Service, private firms) can offer single-site images on

their websites without restrictions of any kind.

The National Weather Service has wanted to put this online in  
real-time, and now they finally can. They have been able to test this

internally, and it is ready to go. On January 1, go to:

<http://weather.noaa.gov/radar/national.html>

Rick Davis  
KG4HZM  
[www.northwestgaskywarn.net](http://www.northwestgaskywarn.net)

---

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<http://dl.www.juno.com/get/tagj>.

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---

### 830. [aprssig] Packet Emission Designation

From: "Ev Tupis (W2EV)" <[propnet@greeceny.com](mailto:propnet@greeceny.com)>  
Date: Sat, 30 Dec 2000 10:53:31 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-127125-2000.12.30-10.04.36--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Lots of thanks to Jack (KB4XF), who pointed me to the document that contained the "secret decoder ring" for emission designations.

As best as I can determine, APRS, BEACONet and other 2-meter packet emissions are designated as:

5KF1D

Meaning that the typical participant uses:

- (5K) 5 kHz of maximum bandwidth
- (F) Frequency Modulated Carrier
- (1) A single channel containing quantized or digital signals without the use of a modulating subcarrier
- (D) Data

Of course, I understand that many of us have the equipment to assure that we occupy no more than 3.5 kHz of bandwidth, making those folks... 3K5F1D.

Anyway...I thought I'd share the fruit of my discovery, for what it's worth.

Ev, W2EV

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### 831. [aprssig] Dumb IGate question

From: "Ev Tupis (W2EV)" <[propnet@greeceny.com](mailto:propnet@greeceny.com)>  
Date: Sat, 30 Dec 2000 11:01:28 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-127127-2000.12.30-10.11.00--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

How would I know that a posit has been IGated out to the Internet and back to RF, simply by looking at the posit (and not knowing who the IGates are)?

I seem to have a fading memory of knowing this at one time, but I can't shake the information loose from the cobwebs.  
:o)

Ev, W2EV

---

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---



### 832. [aprssig] Re: GPS on ISS (was:Re: APRS on Internatil Space Station)

From: K5QQ@aol.com  
Date: Sat, 30 Dec 2000 11:04:02 EST  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-127129-2000.12.30-10.17.04--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In a message dated 12/29/2000 8:46:13 PM Mountain Standard Time,  
BordingK@aol.com writes:

> Wouldn't work! GPS III+s lock out at 99 knots

I know that is not true from personal experience. I took mine on a southwest flight several years and we were doing over 550MPH. I do recall some of the earlier Garmin units had that problem but not the III+

73's de Jim K5QQ

---

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---

### 833. [aprssig] Re: GPS on ISS (was:Re: APRS on Internatil Space Station)

From: Wally Foster <wfoster@hsc.usc.edu>  
Date: Sat, 30 Dec 2000 08:08:44 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-127131-2000.12.30-10.22.50--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Can't understand why a III+ would lock out at 99 kts.. I've used my III on flights that wouldn't get off the ground at 99 kts and it worked just fine..

---

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---

### 834. [aprssig] Re: NWS radar going realtime on Jan.1

From: Gerry Creager N5JXS <gerry@cs.tamu.edu>  
Date: Sat, 30 Dec 2000 10:34:48 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-127135-2000.12.30-10.47.22--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Most of the Universities feed from UCAR (Unidata/LDM). The feed from Unidata has been tested for the last couple of months, and works, but there are currently serious questions about how to snag appropriate data, how much, how often, etc. The volume is pretty impressive.

I was NOT involved with the early tests. I'll be testing some of the feeds soon to help evaluate nominal collection criteria, and I'll try to report back. For now, the LDM feed is still restricted to non-profit (no-cost) and fee-based for profit applications, with "big pipes" (some exceptions apply) and research applications. I've been asking about an APRS feed, and I may get positive news soon.

73, gerry n5jxs

--

Robert W Burton wrote:

>

> Thought this might be of some interest to folks, esp. the ones who like  
> to overlay the radar shots onto WINAPRS.

> This came from the GA Skywarn sig.....

> <snip>

> As you know some of you know, the NIDS (Nexrad Information Dissemination  
>

> Service) contract between the National Weather Service and the radar

> data vendors runs out January 1. In English, it means that anyone

> with a data feed from the National Weather Service (most Universities,

> National Weather Service, private firms) can offer single-site images on

>

> their websites without restrictions of any kind.

>  
> The National Weather Service has wanted to put this online in  
> real-time, and now they finally can. They have been able to test this  
> internally, and it is ready to go. On January 1, go to:

--

Gerry Creager -- gerry@cs.tamu.edu  
Network Engineering |Research focusing on  
Academy for Advanced Telecommunications |Satellite Geodesy and  
and Learning Technologies |Geodetic Control  
Texas A&M University 979.458.4020 (Phone) -- 979.847.8578 (Fax)

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---

### 835. [aprssig] RE: operating from a cruise ship

From: "Wes Johnston" <wes@johnston.net>  
Date: Sat, 30 Dec 2000 12:36:13 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-127141-2000.12.30-11.47.57--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The ship is registered in Norway. Royal Carribean line. My new bride can't wait to see me spend time operating an aprs satellite (actually I could tell the excitement in her eyes when she rolled them and said "what ever"). So is norway in this CEPT agreement?

\W/es

-----Original Message-----

From: Paul E. Knupke, Jr. <pk@ij.net>  
To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Date: Friday, December 29, 2000 09:43  
Subject: [aprssig] RE: operating from a cruise ship

>Permission to operate on a vessel will require two things. You need to get  
>a reciprocal license from the country the ship is registered to. If the  
>ship is registered to a signee of the CEPT agreement you automatically have  
>reciprocal privileges.

>

>You must also gain the permission of the captain to operate aboard.

>

>When the boat is docked in any port and within the territorial waters

>(varies by country) you must have a reciprocal license from that country.

>If you are docked (or in the territorial waters) of the USVI or Puerto Rico

>your US license is valid.

>

>Remember that to get reciprocal licensing can take some time in some

>countries so don't expect to get permission on the spot. Check the ARRL  
web

>page for information on getting a reciprocal license. Some countries allow  
>it by mail, some do not, some charge a fee, while others do not.

>

>73

>Paul

>N4PK

>

>

>-----Original Message-----

>From: bounce-aprssig-19964@lists.tapr.org

>[mailto:bounce-aprssig-19964@lists.tapr.org]On Behalf Of wes johnston

>Sent: Friday, December 29, 2000 9:02 AM

>To: TAPR APRS Special Interest Group

>Subject: [aprssig] operating from a cruise ship

>

>

>Was just reading about operating so-35 and wondered what does it take

>(legally, NOT technically) to operate from a cruise ship in the carribean?

>On the open seas, I shouldn't need any license other than my us license

>right?

>

>Wes

>

>

>---

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>  
>

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---

## 836. [aprssig] Re: Packet Emission Designation

From: Bob Bruninga <bruninga@usna.edu>  
Date: Sat, 30 Dec 2000 12:52:50 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-127143-2000.12.30-12.05.13--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The bandwidth of a typical FM signal is more like 12 or 16 Khz thus it should be 16KF1D. You confused deviation with bandwidth, I think... or at least that is how I interpreted it..

bob

On Sat, 30 Dec 2000, Ev Tupis (W2EV) wrote:

> Lots of thanks to Jack (KB4XF), who pointed me to the  
> document that contained the "secret decoder ring" for  
> emission designations.  
>  
> As best as I can determine, APRS, BEACONet and other 2-meter  
> packet emissions are designated as:  
>  
> 5KF1D  
>  
> Meaning that the typical participant uses:  
> (5K) 5 kHz of maximum bandwidth  
> (F) Frequency Modulated Carrier  
> (1) A single channel containing quantized or digital  
> signals without the use of a modulating subcarrier  
> (D) Data  
>  
> Of course, I understand that many of us have the equipment  
> to assure that we occupy no more than 3.5 kHz of bandwidth,  
> making those folks... 3K5F1D.  
>  
> Anyway...I thought I'd share the fruit of my discovery, for  
> what it's worth.  
>  
> Ev, W2EV  
>  
>  
> ---  
> You are currently subscribed to aprssig as: bruninga@usna.edu  
> To unsubscribe send a blank email to leave-aprssig-842K@lists.tapr.org  
> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org  
>  
>

de WB4APR@amsat.org, Bob

See my APRS LIVE pages <http://web.usna.navy.mil/~bruninga/aprs.html>  
See APRS SATELLITES <http://web.usna.navy.mil/~bruninga/astars.html>  
See MIM/Mic-E/Mic-Lite <http://www.toad.net/~wclement/mim2.htm>

---

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---

## 837. [aprssig] Etrex GPS

From: Frank Ingle <73545.1210@compuserve.com>  
Date: Sat, 30 Dec 2000 13:01:41 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-127145-2000.12.30-12.15.49--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hi gang,

I got a shiny new \$70 Etrex for Christmas and have been

having lots of fun with it, but one small problem continues to nag at me:

After I've reached a destination, I'd like to be able to go back and review the track I followed to get there on the map screen. So far, I haven't found a way to get the map screen to center on any location but my current position. That means that to see my starting point, I have to zoom out so far that the whole track is just a few pixels long, and waypoint labels overlap badly. Is there a "pan" command, or another trick to move the center?

Just so you'll know, I have downloaded the 55 page manual from the internet, and read it cover to cover. If there's a way to do it in the book, I must have missed it.

<steps up on soap box>

BTW, I trust there will be a special place in the next life for those manufacturers who believe that customers are not entitled to receive complete manuals in the package with their purchase. It will be standing-room only because most modern manufacturers already have reservations there.... The toilets there will have an un-documented flush procedure, and telephone tech-support will be furnished by the local cable service provider..... Flush volume will be hard-coded to 1/2 GPF..... :-)

<steps off of soap box>

Any help would be appreciated. If this is too far off-topic, just tell me where to direct my question. Thanks and 73.

Sandy Ingle  
KG4CQK

---

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---

### 838. [aprssig] Re: IGate Connections to second.aprs.net

From: "Jeff Brenton" <jeffb@espi.com>  
Date: Sat, 30 Dec 2000 12:47:57 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: "aprssig" <aprssig@tapr.org>  
Message-ID: <LYR842-127150-2000.12.30-13.00.56--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

> aprsdCHO is missing

Oversight on my part... it was in the DNS, but I forgot to transfer it to APRSXTRA.TXT, but it's now there.

> aprsdCOS is down

That I didn't know about, but I've removed it from the list, pending further research.

Thanks!

Jeff Brenton, Amateur Radio call sign KA9VNV  
<http://espi.com>  
Questionable web page: <http://dididahdidit.com>  
That strange feeling that you've never  
done this before: <http://uvajed.espi.com>

"Modern Liberalism: The embodiment of an irrational fear of letting other people run their own lives."

---

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### 839. [aprssig] Re: GPS on ISS (was:Re: APRS on Internatil Space Station)

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Sat, 30 Dec 2000 07:42:40 -0700

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-127170-2000.12.30-15.41.00--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 10:42 PM 12/29/00 -0500, BordingK@aol.com blasted the following out into the ether:  
>Wouldn't work! GPS III+s lock out at 99 knots! Need the GPS III Pilot!  
>  
>DE W5KNB  
>Ken

Afraid not! My 2+ works at any speed I've been able to throw at it in the Cessnas. They go up to around 150 or 160 knots in a dive, 100+ knots straight & level.

7 3  
Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

---

#### 840. [aprssig] Re: GPS on ISS (was:Re: APRS on Internatil Space Station)

From: Earl Needham <KD5XB@AMSAT.ORG>  
Date: Sat, 30 Dec 2000 07:43:58 -0700  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: aprssig@lists.tapr.org  
Message-ID: <LYR842-127171-2000.12.30-15.41.06--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

At 08:18 AM 12/30/00 -0500, BordingK@aol.com blasted the following out into the ether:  
>I stand corrected that's good to know that the III+ works above 99 knots.  
>Since I won the FREE Garmin III Pilot from aircraftowners.com (not an endorsement, but they actually do award those prizes they advertise as >giveaways!) last year I've never tried my older III+ in flight.  
>  
>Thanks again to all who responded.  
>  
>DE W5KNB  
>Ken

Oops, let fly before I saw the above. Sorry...

Earl

Earl Needham, KD5XB      <mailto:KD5XB@AMSAT.ORG>  
Clovis, New Mexico      DM84jk N34d 25.446m W103d 12.700m (or so)

Pet peeve: breath is a noun, breathe is a verb (When you take a breath, you breathe...)

---

#### 841. [aprssig] Re: NWS radar going realtime on Jan.1

From: Kevin Kelly <kmkelly@tni.net>  
Date: Sat, 30 Dec 2000 19:04:54 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-127216-2000.12.30-18.18.48--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Great info!

Thanks,  
Kevin Kelly/N6QAB

Robert W Burton wrote:

>  
> Thought this might be of some interest to folks, esp. the ones who like  
> to overlay the radar shots onto WINAPRS.  
> This came from the GA Skywarn sig.....  
> <snip>  
> As you know some of you know, the NIDS (Nexrad Information Dissemination  
>  
> Service) contract between the National Weather Service and the radar  
> data vendors runs out January 1. In English, it means that anyone

> with a data feed from the National Weather Service (most Universities,  
> National Weather Service, private firms) can offer single-site images on  
>  
> their websites without restrictions of any kind.  
>  
> The National Weather Service has wanted to put this online in  
> real-time, and now they finally can. They have been able to test this  
> internally, and it is ready to go. On January 1, go to:  
>  
> <http://weather.noaa.gov/radar/national.html>  
>  
> Rick Davis  
> KG4HZM  
> [www.northwestgaskywarn.net](http://www.northwestgaskywarn.net)  
>

---

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---

## 842. [aprssig] AEA PK-96 in tracker mode

From: K3for@aol.com  
Date: Sat, 30 Dec 2000 22:08:41 EST  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-127260-2000.12.30-21.21.16--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Anyone who has configured an AEA PK-96 in stand-alone GPS tracker mode,  
please email me direct your settings. My original manual makes no reference  
to the following commands in the new firmware that was installed later:

GINITEXT  
GLOCTXT  
GNMEA1  
GNMEA2  
GPOLLCALL  
GPSAUTO  
GPSMODE  
GREMPROG  
GSYNCHAR  
GUNSTART  
UPLINK

Thanks and 73's,  
SKip/K3FOR

---

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---

## 843. [aprssig] What has happened to the weather data?

From: Qrpvhf@aol.com  
Date: Sat, 30 Dec 2000 23:15:25 EST  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-127270-2000.12.30-22.28.17--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Oh no!

Did it finally happen? Did they turn off the weather data feed to the  
internet?

All I am seeing on my internet connection via aprsdMGW is stuff issued by  
callsigns not the normal 6-letter NWS stations?

Jacob Tennant,K8JWT

---

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---

## 844. [aprssig] Re: Packet Emission Designation

From: Skip Allison <[sallison@megsinet.net](mailto:sallison@megsinet.net)>  
Date: Sat, 30 Dec 2000 23:11:14 -0600  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-127273-2000.12.30-23.24.48--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Bob Bruninga wrote:  
 >  
 > The bandwidth of a typical FM signal is more like 12 or 16 Khz thus it  
 > should be 16KF1D. You confused deviation with bandwidth, I think...

> On Sat, 30 Dec 2000, Ev Tupis (W2EV) wrote:  
 >  
 > > Lots of thanks to Jack (KB4XF), who pointed me to the  
 > > document that contained the "secret decoder ring" for  
 > > emission designations.  
 > >  
 > > As best as I can determine, APRS, BEACONet and other 2-meter  
 > > packet emissions are designated as:

> > 5KF1D

> > Meaning that the typical participant uses:  
 > > (5K) 5 kHz of maximum bandwidth  
 > > (F) Frequency Modulated Carrier  
 > > (1) A single channel containing quantized or digital  
 > > signals without the use of a modulating subcarrier  
 > > (D) Data

> > Of course, I understand that many of us have the equipment  
 > > to assure that we occupy no more than 3.5 kHz of bandwidth,  
 > > making those folks... 3K5F1D.

Actually it would be 16K5F3D since it's AFSK.

Skip  
 K9SA

---

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## 845. [aprssig] Sunsat Success

From: "Stephen M. King" <frastephen@home.com>  
 Date: Sun, 31 Dec 2000 00:15:13 -0500  
 To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
 Message-ID: <LYR842-127274-2000.12.30-23.28.33--lyris.aprssig#tapr.org@lists.tapr.org>  
 Rendered body type: text/plain

Just wanted to pass along my experience today with S0-35 ... hopefully an encouragement to those who haven't given SUNSAT a shot yet...

Today I set up my D7A (not a G -- haven't been able to part with it yet!) to send VIA APRSAT and changed the frequency to 145.900. That is the only change I made to my setup.  
 I put the D7A (with a Comet SMA-24 antenna) on the windowsill inside my home and let it beacon during the afternoon pass today. Tonight, when I checked FINDU, there I was!

As you can see, it does not take much to participate! Give it a shot!

Peace and 73 and a Blessed New Year to all ....  
 Stephen  
 KD3OG

P.S. Just a reminder ... the 145.900 uplink to S035 is shared with other satellites so it might not be a good idea to beacon there when one of the "APRSAT's" is not in view... we want to be good neighbors with the PACSAT folks!

---

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## 846. [aprssig] W6XXX-3 WIDEn-N digi settings

From: "Cap Pennell" <cap@cruzio.com>  
 Date: Sun, 31 Dec 2000 02:26:49 -0800  
 To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
 Message-ID: <LYR842-127297-2000.12.31-04.39.14--lyris.aprssig#tapr.org@lists.tapr.org>  
 Rendered body type: text/plain

Now if I were setting up the high-level W6XXX-3 WIDEn-N digi with a Kantronics KPC3+ ver8.3 TNC, I'd start with all the TNC's settings at their defaults (using the RESTORE D command). Then I'd make a text file from the following text and feed it into the TNC from my terminal software. After that, I could feed the file into the TNC again later if I needed to, even REMOTEly. Of course the two most important settings to remember are MYRemote and RText.  
That's all I'd need!  
73 and Happy New Year, Cap KE6AFE

```
INTface  TERMINAL
BText    >APRS digi on Wilder Ridge/SARC/<w6xxx@arrl.net>
Beacon   EVERY 59
BLT 1    EVERY 00:09:59
BLT 2    EVERY 00:39:58
BLT 3    EVERY 03:00:04 START 00:00:05
BLT 4    EVERY 03:00:05 START 01:30:05
CD       SOFTWARE
CHeck    30
CMsG     PBBS
CONOK    ON
CText    No operator here now; Connecting you to the W6XXX-1 PBBS...
CWID     EVERY 0
DIGIpeat ON
Dwait    9
HID      OFF
LT 1     !3348.57NN12203.41W#PHG5230/A=003380/Wilder Ridge, W of Simpson
LT 2     !3348.57NN12203.41W#PHG5230/A=003380/Wilder Ridge, W of Simpson
LT 3     !3348.57NN12203.41W#PHG5230/A=003380/Wilder Ridge, W of Simpson
LT 4     !3348.57NN12203.41W#PHG5230/A=003380/Wilder Ridge, W of Simpson
LTP 1    APRS
LTP 2    APRS VIA WIDE
LTP 3    APRS VIA WIDE3-3
LTP 4    APRS VIA TRACE3-3
MYcall   W6XXX-3
MYAlias  W6XXX-12
MYNode   W6XXX-7
MYPbbs   W6XXX-1
MYRemote W6XXX-2
NEwmode  ON
NText    NODE for APRS or emergency use only. Otherwise, disconnect now.
NUMNodes 1
Paclen   0
PASSAll  OFF
PText    SARC's W6XXX-1 APRS mailbox! APRS related messages ONLY please.
RText    Your Secret Phrase goes Here
TXDelay  35
Unproto  APRS
UIIdigi  ON RELAY,WIDE,TRACE,CA
UIDwait  OFF
UIFlood  WIDE,28,NOID
UITrace  TRACE,29
```

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## 847. [aprssig] Re: Packet Emission Designation

```
From: "Ev Tupis (W2EV)" <propnet@greeceny.com>
Date: Sat, 30 Dec 2000 23:08:25 -0500
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Message-ID: <LYR842-127301-2000.12.31-06.43.13--lyris.aprssig#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

Bob Bruninga wrote:

```
> The bandwidth of a typical FM signal is more like 12
> or 16 Khz thus it should be 16KF1D. You confused
> deviation with bandwidth, I think...
> or at least that is how I interpreted it..
```

Part of the issue is the definition of the term "Necessary Bandwidth", which is what the characters prior to F1D refer to. I need to research that definition before I can focus better.

This is what I get for being grounded in the world of



narrowband VHF, playing in the FM neighborhood.  
:o)

Thanks for the comments, Bob. I'll do more research and post again on this topic soon.

Ev

---

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---

## 848. [aprssi] Recap: Emission Designation-Good thread!

From: "Ev Tupis (W2EV)" <propnet@greeceny.com>  
Date: Sun, 31 Dec 2000 08:34:57 -0500  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-127304-2000.12.31-07.46.06--lyris.aprssi@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

In order...

Thanks to Jack (KB4XF), Bob (WB4APR) and Jack (KB4XF) <g>  
who:

- (1) pointed me in the right direction to locate the emission designation "secret decoder ring"  
<http://www.ntia.doc.gov/osmhome/redbook/redbook.html>  
- I found what I was looking for by downloading Chapter 9 (a 500K pdf)
- (2) let me know that I interpreted it incorrectly, so I went digging deeper to understand better  
- I had suggested an AFSK packet emission designation of 3K5F1D for 3.5 kHz deviation.  
- Bob suggested that I was confusing deviation with bandwidth. After looking over the FCC/NTIA document more closely, it referred to "Effective bandwidth". So I went back to reading it.
- (3) directed me to the information in the document that I overlooked, again letting me learn more deeply.  
- For AFSK FM, "Effective Bandwidth" is calculated as:  $2(Fd+Fm)$ , where  $Fd$ =Frequency Deviation and  $Fm$ =Frequency of Maximum Modulation.  
- For AFSK FM, this calculates out as follows, in the USA, for typical 144.39 APRS operation:  
"Best":  $2(3.5+2.2) = 2(5.7) = 11.4 \dots 11K4F1D$   
"Wider than needed":  $2(5+2.2) = 2(7.2) = 14.4$   
- For what it's worth...I've been in conversation with folks in IARU Region 1, where they can use AFSK FM Packet on 10-meters, where they limit deviation to 2.5 kHz. For giggles, their designation would be:  $2(2.5+2.2) = 2(4.7) = 9.4$   
Now I see how they can get away with 10-kHz channel spacing from 29.2 to 29.3...just marginally. :o)

This was a very interesting endeavor. The hope is that, if I've missed the boat on any of this, please steer me back on target. Otherwise, I thought I'd share the benefit of the help I received with the sig.

Ev, W2EV

---

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---

## 849. [aprssi] image usage for map problem

From: Guy Story <kc5goi@tapr.org>  
Date: Sun, 31 Dec 2000 10:13:54 -0600 (CST)  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-127318-2000.12.31-10.26.18--lyris.aprssi@tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hello everyone, I have run into a brick wall on this one. With the announcement of the NWS radar being released to a more public domain, I took some time today to play with it as a map. The good news is that the

images  
are in GIF file format. WinAPRS requires either 8 bit bitmap or GIF. I  
have created the file for my local area but have run into an error message  
of "invalid USGS-DEM file". The thing is this, it is not a DEM file. I  
have followed the instructions in WinAPRS for the GEO file that I need to  
create. It has tabs not spaces. I also have placed it in the images  
directory per the directions. The image is available, that is how I got  
the  
URL. Below is a copy of the text in the file.

URL      <http://www.srh.noaa.gov/radar/images/DS.p19r0/SI.kfws/latest.gif>  
# This url is from Fort Worth NWS Office  
# x y lon lat  
Tiepoint      132      131      -95.7927805556   31.6322638889  
Tiepoint      620      620      -98.9532611111   33.8343444444

Based on the directions in WinAPRS, I have created the geo file. I know  
from other images used as maps you have to use the same name as the image  
but with the GEO extension. I have labeled the GEO file latest.geo. If  
someone knows what I am missing here, the help would be appreciated.

73,

Guy Story  
KC5G0I  
kc5goi@tapr.org  
<http://www.kc5goi.net>

---

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---

## 850. [aprssig] Chatting via APRServe

From: Bill Diaz <billdiaz@megsinet.net>  
Date: Sun, 31 Dec 2000 11:58:46 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-127344-2000.12.31-12.11.20--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I was exchanging messages using WinAprs via APRServe with KB7ZVA when I  
realized that this was a waste of APRServe bandwidth since we were both  
connected to the server. These messages were also being IGATED in various  
locations.

I have developed applications to permit Internet users to establish a chat  
client session with a chat server. These applications use TCP/IP but do not  
use APRServe, or APRS in any way. The chat client will soon be incorporated  
into AFilter.

AChat client can be download from <http://www.c2i2.com/~yumaprs/> or  
<ftp://ftp.billdiaz.dynip.com/aclient104.zip>

Dick, KB7ZVA is running an AChat Server at 216.183.206.65 port 3037. AChat  
Client is preloaded with this address.

You can easily set up an AChat Server for your local group, or for special  
interest purposes. AChat Server can be run with dynamic IP addresses obtained  
via standard dialup Internet access. AChat server is available at  
<ftp://ftp.billdiaz.dynip.com/aserver104.zip>

Bill KC9XG

Display current vehicle location :  
<http://www.findu.com/cgi-bin/find.cgi?KC9XG-14>

---

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---

## 851. [aprssig] Re: Chatting via APRServe

From: "Brent Hildebrand" <bhildebrand@earthlink.net>  
Date: Sun, 31 Dec 2000 11:01:42 -0800

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-127347-2000.12.31-13.23.05--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The APRS+SA built-in chat program will work with Bill's chat program though not 100% the same. To activate APRS+SA's chat, perform the following "Calculator" trick:  
Chat "Create"

Ignore the error message, and enter 216.183.206.65:3037 on the Left Address box, and click Connect. Enter text in the lower edit box.

Brent Hildebrand, KH2Z

APRS+SA  
<http://www.tapr.org/~kh2z/aprsplus>  
<ftp://ftp.tapr.org/aprssi#winstuff/aprsplus>

[]  
----- Original Message -----  
From: "Bill Diaz" <billdiaz@megsinet.net>  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Sent: Sunday, December 31, 2000 9:58 AM  
Subject: [aprssi] Chatting via APRServe

> I was exchanging messages using WinAprs via APRServe with KB7ZVA when I  
> realized that this was a waste of APRServe bandwidth since we were both  
> connected to the server. These messages were also being IGATED in various  
> locations.  
>  
> I have developed applications to permit Internet users to establish a chat  
> client session with a chat server. These applications use TCP/IP but do not  
> use APRServe, or APRS in any way. The chat client will soon be incorporated  
> into AFilter.  
>  
> AChat client can be download from <http://www.c2i2.com/~yumaprs/> or  
> <ftp://ftp.billdiaz.dynip.com/aclient104.zip>  
>  
> Dick, KB7ZVA is running an AChat Server at 216.183.206.65 port 3037. AChat  
> Client is preloaded with this address.  
>  
> You can easily set up an AChat Server for your local group, or for special  
> interest purposes. AChat Server can be run with dynamic IP addresses obtained  
> via standard dialup Internet access. AChat server is available at  
> <ftp://ftp.billdiaz.dynip.com/aserver104.zip>  
>  
> Bill KC9XG  
>  
> Display current vehicle location :  
> <http://www.findu.com/cgi-bin/find.cgi?KC9XG-14>  
>  
>  
> ---  
> You are currently subscribed to aprssi as: bhildebrand@earthlink.net  
> To unsubscribe send a blank email to leave-aprssi-842K@lists.tapr.org  
> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org  
>  
>

---  
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---

## 852. [aprssi] Re: Recap: Emission Designation-Good thread!

From: Skip Allison <sallison@megsinet.net>  
Date: Sun, 31 Dec 2000 13:26:55 -0600  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-127348-2000.12.31-13.40.29--lyris.aprssi#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

"Ev Tupis (W2EV)" wrote:  
>  
>  
> This was a very interesting endeavor. The hope is that, if  
> I've missed the boat on any of this, please steer me back on  
> target. Otherwise, I thought I'd share the benefit of the  
> help I received with the sig.  
>

> Ev, W2EV  
>

You only missed one thing. It's AFSK not FSK. So it would be 11KF3D,  
not 11KF1D.

Skip  
K9SA

---

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## 853. [aprssig] Re: Sunsat Success

From: Bob Bruninga <bruninga@usna.edu>  
Date: Sun, 31 Dec 2000 15:13:23 -0500 (EST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-127352-2000.12.31-14.25.48--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

I am hurridly modifying a vesion of APRSdata to downlink POSITS for SUNSAT  
and U022 and ISS for anyone looking at their downlink. Until I finish  
it, I will try to QSY my terrestrial APRSdata over to each satelites  
uplink during a pass for anyone tuned in...  
Bob

On Sun, 31 Dec 2000, Stephen  
M. King wrote:

> Just wanted to pass along my experience today with S0-35 ... hopefully an  
> encouragement to those who haven't given SUNSAT a shot yet...  
>  
> Today I set up my D7A (not a G -- haven't been able to part with it yet!) to  
> send VIA APRSAT and changed the frequency to 145.900. That is the only  
> change I made to my setup.  
> I put the D7A (with a Comet SMA-24 antenna) on the windowsill inside my home  
> and let it beacon during the afternoon pass today. Tonight, when I checked  
> FINDU, there I was!  
>  
> As you can see, it does not take much to participate! Give it a shot!  
>  
> Peace and 73 and a Blessed New Year to all ....  
> Stephen  
> KD3OG  
>  
> P.S. Just a reminder ... the 145.900 uplink to S035 is shared with other  
> satellites so it might not be a good idea to beacon there when one of the  
> "APRSAT's" is not in view... we want to be good neighbors with the PACSAT  
> folks!  
>  
>  
> ---  
> You are currently subscribed to aprssig as: bruninga@usna.edu  
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>  
>

de WB4APR@amsat.org, Bob

See my APRS LIVE pages <http://web.usna.navy.mil/~bruninga/aprs.html>  
See APRS SATELLITES <http://web.usna.navy.mil/~bruninga/astars.html>  
See MIM/Mic-E/Mic-Lite <http://www.toad.net/~wclement/mim2.htm>

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---

## 854. [aprssig] Screen Shot

From: "John Blowsky" <kb2scs@optonline.net>  
Date: Sun, 31 Dec 2000 17:40:44 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Message-ID: <LYR842-127367-2000.12.31-16.52.16--lyris.aprssi@lists.tapr.org>  
Rendered body type: text/plain

Hi All

I am looking in a screen shot of APRSplus.  
I am doing a presentation and I would like a screen shot of APRSplus.  
So if some APRSplus user could please save a screen shot of their local  
area with some callsign on it I would really appreciate it.  
I can use jpg or bit maps. Obviously do not send the shot to the sig but to  
my  
kb2scs@arrl.net  
address.

Also note the presentation is going to be at HRU2001 on January 21  
so if you are in the NY area please check out HRU2001 at the following url  
<http://www.arrl-hudson.org/nli/>  
Thanks

Let us hope we never witness the "Silence Of The Hams"  
73 DE John KB2SCS  
Mail To: kb2scs@wa2pnu.#nli.ny.usa.noam  
E-Mail: kb2scs@arrl.net

---

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---

## 855. [aprssi] Re: W6XXX-3 WIDEn-N digi settings

From: K5QQ@aol.com  
Date: Sun, 31 Dec 2000 18:18:20 EST  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-127396-2000.12.31-17.30.44--lyris.aprssi@lists.tapr.org>  
Rendered body type: text/plain

In a message dated 12/31/2000 3:30:30 AM Mountain Standard Time,  
cap@cruzio.com writes:

- > Now if I were setting up the high-level W6XXX-3 WIDEn-N digi with a
- > Kantronics KPC3+ ver8.3 TNC,
- > CMSG PBBS
- > CText No operator here now; Connecting you to the W6XXX-1 PBBS...
- > PText SARC's W6XXX-1 APRS mailbox! APRS related messages ONLY please.

I guess my question is why do you want to promote connected sessions on  
the unconnected based APRS network? Seems this just encourages people to  
send BBS oriented material and also tends to encourage folks to start  
trying multiple hops to get to your PBBS.

We have an e-mail address on all 35 of our digi's and if someone has a  
question or needs info, they can get in touch with us that way.

Just my \$.02 for the end of this millennium..

Jim K5QQ

---

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---

## 856. [aprssi] KAM 8.2 and APRS Gateway

From: "Chuck Rippel" <win.308@home.com>  
Date: Sun, 31 Dec 2000 18:49:51 -0500  
To: "TAPR APRS Special Interest Group" <aprssi@lists.tapr.org>  
Message-ID: <LYR842-127397-2000.12.31-18.01.49--lyris.aprssi@lists.tapr.org>  
Rendered body type: text/plain

Am Running WinAPRS 2.47 and a KAM with 8.2 firmware. I would  
like to gate 30M APRS info on VHF.

I have the TNC settings in WinAPRS to Dualport Kantronics, the  
GATE in the TNC to MYGATE.

Receive 30M APRS data which displays on the screen locally.  
However, it does not go out over VHF. In fact, nothing goes out  
over VHF even if I force a position report or wx transmission.

Doubtless I am missing something. If someone out there in list  
land would like to help, I'd be happy to carry on a discussion off the  
list.

Reply to:  
wa4hhg@amsat.org

Thanks in advance!

=====

Chuck Rippel, WA4HHG  
Chesapeake, VA  
ARES Emergency Coordinator,  
City of Virginia Beach  
FM16uq

Reply to:  
wa4hhg@amsat.org  
www Site: <http://www.avslvb.com/R390A/index.html>  
=====

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---

## 857. [aprssig] sunsat

From: "Brian L. Fulmer" <[bfulmer@ix.netcom.com](mailto:bfulmer@ix.netcom.com)>  
Date: Sun, 31 Dec 2000 19:18:25 -0500  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-127399-2000.12.31-18.32.37--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Hello All,

I have a question, that I am going to address to the group. I am  
new to the world of satellite communication. I own a D7A & D700, and  
work with aprs. When I watch these messages going back and forth, and  
finally deciding to try it, but not knowing what settings or procedures  
to follow. My question is this: is there anyone who can explain this to  
me, or point me in the right direction. I would like to try and receive  
or at least listen to some of the satellites.

Any help in this matter, would greatly be appreciated.

Sincerely,  
Brian.

---

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---

## 858. [aprssig] Unhandled Exception problem

From: [Qrpvhf@aol.com](mailto:Qrpvhf@aol.com)  
Date: Sun, 31 Dec 2000 20:02:34 EST  
To: "TAPR APRS Special Interest Group" <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Message-ID: <LYR842-127402-2000.12.31-19.15.00--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

For some unknown reason I am starting to get the following:

Unhadled Exception: c0000005  
at Address: 0048a351

This is occuring while connected to the internet via AOL, connected to my  
local aprsD server aprsdMGW.

I have never had this problem until just today. As soon as you click "OK" to  
the dialog box Win95 closes down WinAPRS. Unknown if this is happening with a  
RF only connection as this computer is setup for internet connection only.

Jacob Tennant,K8JWT

---

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## 859. [aprssig] RE: W6XXX-3 WIDEn-N digi settings

From: "Cap Pennell" <cap@cruzio.com>  
Date: Sun, 31 Dec 2000 17:18:36 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-127403-2000.12.31-19.30.57--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Jim K5QQ wrote:

> > CMSG PBBS  
> > CText No operator here now; Connecting you to the W6XXX-1 PBBS...  
> > PText SARC's W6XXX-1 APRS mailbox! APRS related messages ONLY  
please.  
>  
> I guess my question is why do you want to promote connected sessions on  
> the unconnected based APRS network? Seems this just encourages people to  
> send BBS oriented material and also tends to encourage folks to start  
> trying multiple hops to get to your PBBS.

We're also using

MYNode W6XXX-7  
NText NODE for APRS or emergency use only. Otherwise, disconnect now.  
NUMNodes 1

We don't do it to PROMOTE connected sessions. But connected sessions could help (as a last resort) in an emergency.  
By the way, neither the NODE or the PBBS ever get any routine traffic. A user has to try a Connect to even know they're there. None do.

> We have an e-mail address on all 35 of our digi's and if someone has a  
> question or needs info, they can get in touch with us that way.

Yes, an email address is HIGHLY recommended here too (in a Position packet or the Beacon), especially in trackers or digis where APRS messaging is not being seen. Most people read their email more often than they check their packet station these days anyway so it's a good way to advise them if something's going awry.

> Just my \$.02 for the end of this millennium..

Happy New Year!  
73, Cap KE6AFE

> Jim K5QQ

---

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---

## 860. [aprssig] Re: Unhandled Exception problem

From: "Alex Pinheiro Machado Rodrigues" <alex@bsbnet.com>  
Date: Sun, 31 Dec 2000 23:26:45 -0200  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-127404-2000.12.31-19.39.30--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Just relax Jacob:)

You and all winaprs users have this problem. Solution: Wait for a new version of winaprs with this fix.

Happy new year!  
73!

Alex, PT2VHF  
BRAZIL, South America

----- Original Message -----

From: <Qrpvhf@aol.com>  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Sent: Sunday, December 31, 2000 11:02 PM  
Subject: [aprssig] Unhandled Exception problem

```
Unhadled Exception: c0000005
at Address: 0048a351
```

I have never had this problem until just today. As soon as you click "OK" to the dialog box Win95 closes down WinAPRS. Unknown if this is happening with a RF only connection as this computer is setup for internet connection only.

— — —

— — —

### 861. [aprssig] : W6XXX-3 WIDEn-N digi settings

The HID lets folks know the callsigns of my PBBS and my KANode. I've left a message in the PBBS explaining this should someone connect. The BEACON is mildly confusing during 'normal' times, but would be \*quite\* valuable during an emergency since the APRS will not have shut down normally (the computer runs on commercial power) and the BEACON is the only way to let someone (who didn't already know) that I'm still on the air.

(snip)

(snip)

— — —

Page 1200



## 862. [aprssig] Re: Laplink

From: Doug McFadden <kc7imr@orednet.org>  
Date: Sun, 31 Dec 2000 17:34:49 -0800 (PST)  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
Message-ID: <LYR842-127412-2000.12.31-20.14.04--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

On Wed, 27 Dec 2000, Pitts, Charles wrote:

>  
>  
> 16 hours no way. I have used laplink and fxlink both to transfer the cab  
> files for w95 and w98 over to a laptop without a cdrom drive. granted it is  
> slow. only took approx. 1 hour. I was using a parallel cable wired for turbo  
> mode using the 16 wire hookup. I used an old printer cable and cut off the  
> printer end and put the DB-25 connector on the end after chasing the wires  
> with a cont tester. The one thing to remember to reduce the transfer time is  
> to have a good clean connection in the cables as well as to your parallel  
> port. this will reduce the errors that will pop up in laplink. To load 95 or  
> 98 you do not have to transfer the whole CD just the cab files. create your  
> directory for windows then a folder called options the a folder called  
> 98CABS. this is a universal place to put these files so when a computer tech  
> does work on the computer he will know where to go to find them.  
>  
> ---  
Good idea on the cable! What are the pinouts, same on both ends or do  
some change?

Doug/KC7IMR

Trying to establish voice contact ... please yell into your keyboard.

-----

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## 863. [aprssig] Re: Laplink

From: "Mike Yetko" <myetsko@insydesw.com>  
Date: Sun, 31 Dec 2000 21:11:06 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-127413-2000.12.31-20.25.47--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

The pinouts are fairly complex. I use a straight through  
DB-25 cable with a MALE connector on each end and a  
FEMALE crimped on about 3" back. Then I made up  
a DB-25 shell that is MALE-FEMALE and wire the Lap  
Link crossover in the shell.

I don't have the wiring handy, as this is a new machine,  
but I can post it first thing Tuesday if no one else does  
by then.

However, I do believe it is documented in the WIN95  
instructions for 'InterLink'.

Mike

----- Original Message -----

From: Doug McFadden <kc7imr@orednet.org>  
To: TAPR APRS Special Interest Group  
> Good idea on the cable! What are the pinouts, same on both  
> ends or do some change?  
>  
> Doug/KC7IMR

---

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## 864. [aprssig] Public thanks

From: "Chuck Rippel" <win.308@home.com>  
Date: Sun, 31 Dec 2000 21:47:27 -0500  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-127415-2000.12.31-20.59.22--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Thank you to Jerry, K9GD for helping me with the HF/VHF Gate problem I annonced before.

> Hello,  
> I am running the HF gate here in the chicago area. Make sure you  
> review the tnc settings in the software.

Looking forward to seeing you on the air

Jerry  
K9GD  
Happy New Year

=====  
Chuck Rippel, WA4HHG  
Chesapeake, VA  
ARES Emergency Coordinator,  
City of Virginia Beach  
FM16uq

Reply to:  
wa4hhg@amsat.org  
www Site: <http://www.avslvb.com/R390A/index.html>  
=====

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---

## 865. [aprssig] RE: : W6XXX-3 WIDEn-N digi settings

From: "Cap Pennell" <cap@cruzio.com>  
Date: Sun, 31 Dec 2000 20:17:17 -0800  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-127421-2000.12.31-22.30.14--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Richard Amirault N1JDU wrote:  
> I run an APRSDos WX stn 24/7. I re-set HID to ON and set the BEACON to  
once  
> every 45 minutes ... why?? Because my station \*may\* be needed in an  
> emergency. I've made special provision to keep the radio/tnc  
> powered should commercial power fail (like in an emergency)  
> The HID lets folks know the callsigns of my PBBS and my KANode.

That's not a bad idea, as long as your Unproto is set to only APRS (not  
through any digis). You wouldn't want your ID (or Beacon) going through all  
the APRS digipeaters routinely. Having Unproto APRS gets the HID and  
Beacon out locally (where it might be needed) but keeps them from causing  
too much QRM on the net. Of course your APRSDos WX packets can use a  
slightly longer path.  
73, Cap KE6AFE

---  
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## 866. [aprssig] Re: image usage for map problem

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Sun, 31 Dec 2000 22:56:47 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-127449-2000.12.31-23.09.37--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

URL based maps need to end in .URL and not .GEO.

They are accessed under Windows/Intellicast Weather Maps.

73,

Mark

KC7BXS

At 10:13 AM 12/31/00, Guy Story wrote:

>Based on the directions in WinAPRS, I have created the geo file. I know  
>from other images used as maps you have to use the same name as the image  
>but with the GEO extension. I have labeled the GEO file latest.geo. If  
>someone knows what I am missing here, the help would be appreciated.

---

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## 867. [aprssig] Re: Unhandled Exception problem

From: Mark Fellhauer <sparkfel@primenet.com>  
Date: Sun, 31 Dec 2000 23:00:50 -0600  
To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
Message-ID: <LYR842-127450-2000.12.31-23.13.38--lyris.aprssig#tapr.org@lists.tapr.org>  
Rendered body type: text/plain

Unhandled Exceptions have never been addressed in any previous update of WinAPRS even though this issue was apparent many many revisions ago. I can generate them internally in WinAPRS, too, by opening windows in certain sequences or doing searches in the edit/find feature...

73,

Mark  
KC7BXS

At 07:26 PM 12/31/00, Alex Pinheiro Machado Rodrigues wrote:

>Just relax Jacob:)  
>You and all winaprs users have this problem. Solution: Wait for a new  
>version of winaprs with this fix.

---

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